P.7 MATHEMATICS REVISION ACTIVITY 1

Name: _____ **Stream:**_____

1. What is the sum of first five prime numbers?	2. The bearing of **L** from **M** is 045^{0}. Use diagram to find the bearing of **M** from **L**.
3. The median of three consecutive off number is 19. Find the sum of the number.	4. At meeting, Juma, Fred and Stella shared land in the ratio of 3:4:5 respectively. If Stella got 20 hectares how much land did they share altogether?
5. Find the complement of $(y - 30)^{0}$	6. Solve $\frac{4}{2r - 8} = \frac{5}{r - 20}$
7. In a group 80% of the members like Science and the rest like English. If 40 pupils like English, how many pupils were there in the group?	8. Given pattern 3,3,4,6,9,x,y,z, what is x+yz.

9. How many $2\frac{1}{2}$ metres are in 10 kilometeres?

10. Subtrat a + 2 from 2a – 1

11. Opolot moved 80km eastewards then moved 70km southeastwards. How far was he finally from his starting point during the shorted route?

12. Kato drove from town P to town B at a speed of 80km/hr for 2 ½ hours. He spent 30 minutes at B while taking breakfast. From B he went on town C a distance of 120km while driving at a speed of 60km/hr.

a) Calculate Kato's average speed for the whole journey.

b) Muhelle drove her car at a constant speed of 60km/hr. What distance did he cover in 90 minutes

13. Sylvia bought the following items from the super market.
- 3kg of beans at shs. 3200 @kg.
- 1 ½ kg of salt at sh. 1800 every kg.
- 250g of meat sh. 8,000 a kg
- 8 apples at sh. 1200 every 2 apples
- 4 paper bags at sh. 4,000

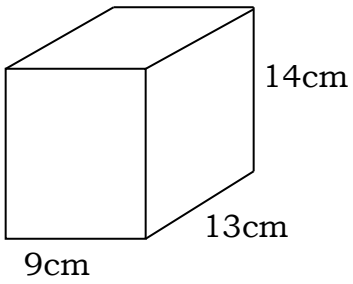
a) How much money did she spend altogether?	b) If she was given a discount of 10% , how much money did she pay?
14. Solve 3(y+2) = 2(y+7)	b) Solve for x. (3x-4) – (x+6) = 0

P.7 MATHEMATICS REVISION ACTIVITY 2

1. Workout 2.4 – 1.65	2. Increase 1400 in the ratio of 5:2
3. Given that y = 5x – 3 and x = $^{-}$2. Determine the value of y.	4. Solve for x if $2^{2x} \times 2^{3x} = 64$

5. When K is decreased by 40% it becomes 480. What is ½ of K.

6. Find the total surface area of the figure below

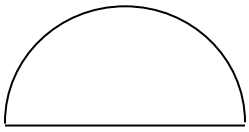


7. Express 0.04024 in standard form

8. 12 boys can finish a piece of work in 30 days. How many more boys are needed to finish the same work in 18 days?

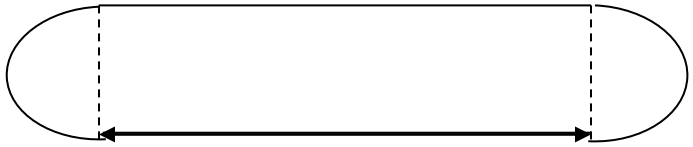
9. Find the perimenter of the figure below

(Take $\pi = \frac{22}{7}$)



10. If $\frac{5}{18} m^2 = 10$. What is m?

11. The diagram below shows a running truck.



a) Find the total length of the truck

b) Find its area in are's

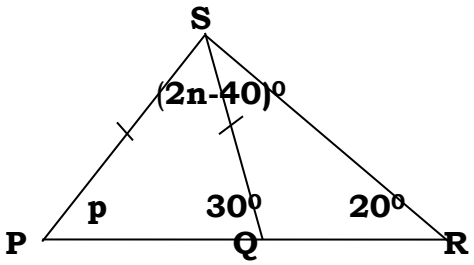
12. After selling a goat at sh. 150,000, a trader made a loss of 40% of the cost price.

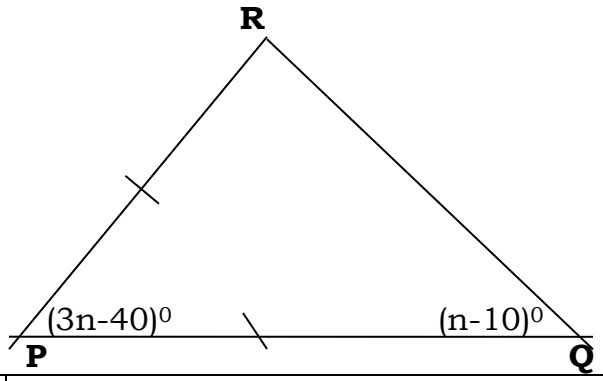
a) What was the trader's cost price?

b) At what price must he sell to make a profit of 30%?

13. In a market the cost of a calf is 3 times the cost of a goat. Akello bought a calf and a goat at sh. 360,000. Find the cost of each of teh two animals.

14. Study the figure and use it to answer questions that follow below



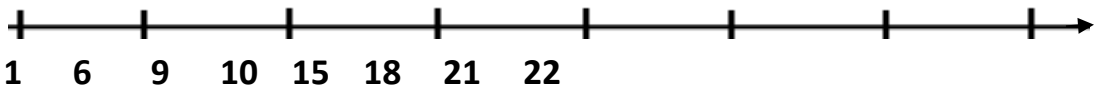


i) Find the value of p and n

ii) Find the size of angle QRS

P.7 MATHEMATICS REVISION ACTIVITY 3

1. Find the sum of the next two numbers in the sequence below



2. Write CDXLIX in words

3. Oketcho had 72 sweets and Mugisha had a half as many as Oketcho's. Find the total number of sweets which both had?

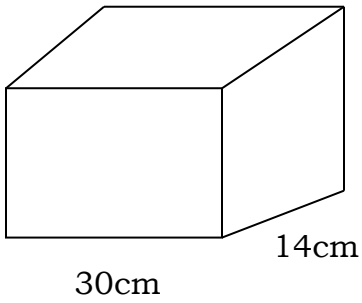
4. Change 12 hactares into metres	5. A P.6 end of term briefing session ended at 2:45pm which started at 11:15am how long was the briefing session?
6. The cost of a tray of eggs is shs. 7500. How many eggs can i buy with sh. 9,000.	7. Given that x = 2, y = $^{-}3$ and z = $^{-}5$. Evaluate $\frac{yz + z}{xy}$
8. Simplify: 3(n+1) – (3-n)	9. Alex's body temperature was 40^0C. What was his temperature in degrees Fahrenheit?
10. Natalia withdrew five thousand shilling notes numbered consecutively from AB3304177 to AB 3304200. How much money did she withdraw?	11. Instead of making a profit of 12%. Male made a loss of 15% while selling a turckey at sh. 34,000. At what price should he have sold it to hit his target?

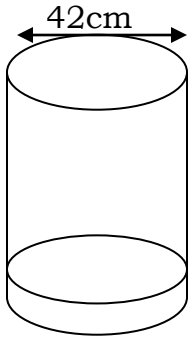
12. A group of girls were served with children or beef or both. 70% were served with chicken and 65% were served with beef. If 175 were served with both.

a) How many were served with chicken?

b) How many were served with only one type?

13. It is given that the rectangular and cylindrical containers (shown below) have the same capacity. What is the height of rectangular container.





14. The interior angle of a regular polygon is 5 times the size of the exterior angle.

a) Find the size of the exterior angle

b) Name the polygon

c) Calculate its interior angle sum.

15. In a class, there are 20 more girls than boys. The fraction of girls in the class is 0.8. Find the total number of pupils in the class.

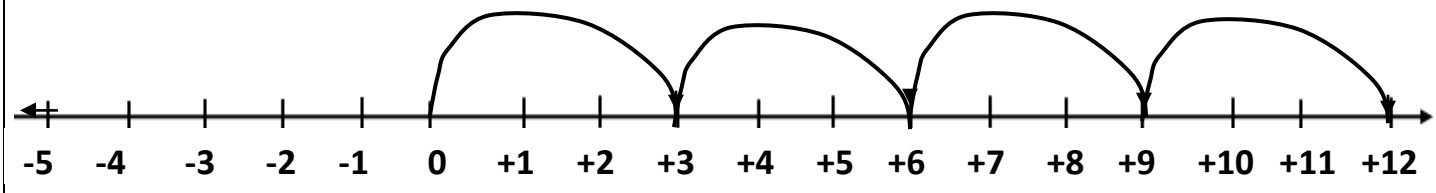
P.7 MATHEMATICS REVISION ACTIVITY 4

Name: _____ **Stream:**_____

1. Divide 48 ÷ 12

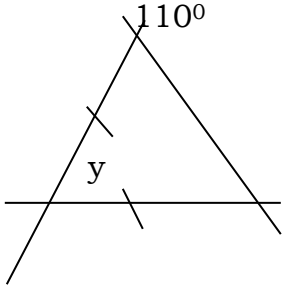
2. Add: $\frac{3}{8} + \frac{1}{4}$

3. What multiplication mathematical statement is shown on the number line?



4. A P.T.A General meeting at Kanoni Primary School started at 9:50am and ended at 12:10pm. How long did the meeting last?

5. In the diagram below, find the value of y.



6. Find the median of -3, 5, 0 -7, 4 and 8

7. Electric poles are planted 50 metres apart. Anita moved from the 5^{th} pole to the 10^{th} pole. Find the distance covered by Anita.

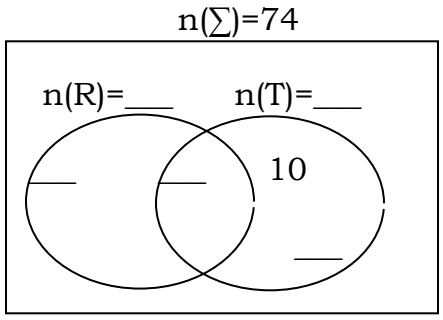
8. Express 0.7272... as a common fraction

9. Today is Friday. What day of the week was it 58 days ago?

10. What percentage of 2kg is 600g?

11. In a village there are 75 homes of which (x+5) homes own Radios only(R), 10 homes own TVs (T) only, 24 homes own both Radios and TVs, while x homes own neither of the two.

a) Use the information to complete the venn diagram



b) Find the value of x.

c. How many homes own radios?

12. Musimenta went shopping and bought the following items

Item	Quantity	Unit cost	Amount
Rice	3kg	Shs. 3,000	Shs._____
Sugar	2 ½ kg	_____	Shs. 5,000
Paraffin	_____ litres	Shs. 3600	Shs. 5400
	Total	Shs._____	Shs._____

a) Complete the table above

b) If she used shs. 2,000 for transport to and from the market, calculate her total expenditure .

13. The table below shows the scores of the pupils in Mathematics test

Scores	4	5	6	_____	9
No. of pupils	4	_____	13	8	_____
Total marks	16	45	_____	56	45

a) Complete the table above

b) Find the range of the scores

c) Calculate the average marks

14. Mugole left town K and drove eastwards to town B a distance of 36km. He then drove northwards from town B to village P a distance of 48km and returned directly from P to town K.

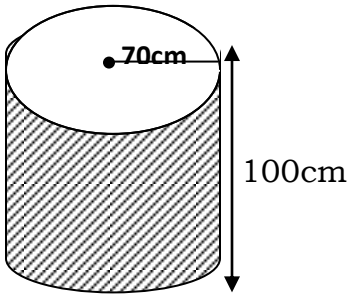
Using a scale of 1cm represent 6km, draw accurate diagram to show Mugole's journey.

b) Find the shortest distance from town K to village P in km.

P.7 MATHEMATICS REVISION ACTIVITY *5*

1. Simplify 4m – 5n + m – 2n	2. Debra is 17 years now, represent her age using tallies.
3. Simplify: $3^2 \times 2^0 \times 3^3$	4. Use the distributive property to workout (100÷5) – (25 ÷5)
5. At party, Mugisha sat visitors in fives and one remained. When he sat in elevens eight remained. Find the least number of visitors he was able to sit.	6. Solve for x; 4 – 2x < 8
7. A tailor had 13.2m of cloth. If 3.4m is used to make a dress. How many centimetres of cloth remained?	8. Write 49.013 in expanded form using place values.
9. Waswa is 12cm shorter than Kigongo. If the sum of their heights is 96cm. Find Wasswa's height.	10. The mean age of 3 children is 20. The total age of two children is 40 years. Find the age of the third child.

11. The diagram below shows a cylindrical tank found on the major Davy farm. Its radius is 70cm height as 100cm it is filled with milk every day. Study it carefully and answer the questions that follow



a) How many litres of milk does the above tank hold when it is completely full?
(Take $\pi = \frac{22}{7}$

b) If each litre of milk is sold at shs. 2,000, how much money does the major get a day when all the milk in the tank is sola.

12. Construct a triangle PQR with PQ = 6cm, angle PQR = 60^0 and angle QPR = 45^0. Use a pair of compasses, a pencil and a ruler only.

c) Measure angle QRP

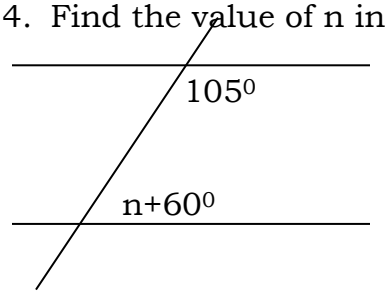
d) Drop a perpendicular line through R to meet PQ.

13. Study the exchange rates below and answer the questions that follow
- 1US Dollar ($) = Ug shs. 3600
- 1 British pound (£) = Ugsh. 4500
- 1 Kenya shilling (Ksh.) = Ug. Shs. 30

a) Mr. Lule had Ug. Shs. 360,000 which he exchanged into pounds. How many pounds did he get?	b) Darlan bought a phone from USA at $ 400. What is the cost of the same phone in Kenya shillings?

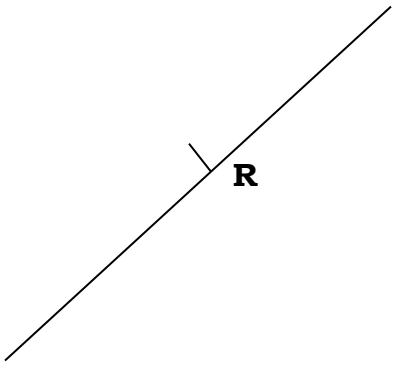
P.7 MATHEMATICS REVISION ACTIVITY 6

Name: _____ **Stream:**_____

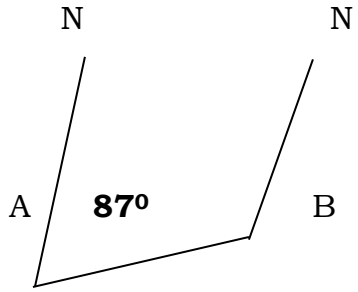
1. What is $22\frac{1}{2}\%$ of sh. 6000	2. Write 40,049 in words.
3. Simplify $\frac{1}{12} - \frac{1}{3}$ of $\frac{1}{3}$	4. Find the value of n in the figure below 
5. The cost of a spoon is shs. 4000 more than that of a fork, a knife costs five times the cost of fork. If the cost of the three items is sh. 81000. Find the cost of a fork.	6. Today is Wednesday 8th March, 2017. What day of the week was it on the 17th November, 2016?

7. Using a ruler and a pair of compasses only.

Construct an angle of $22\frac{1}{2}^0$.



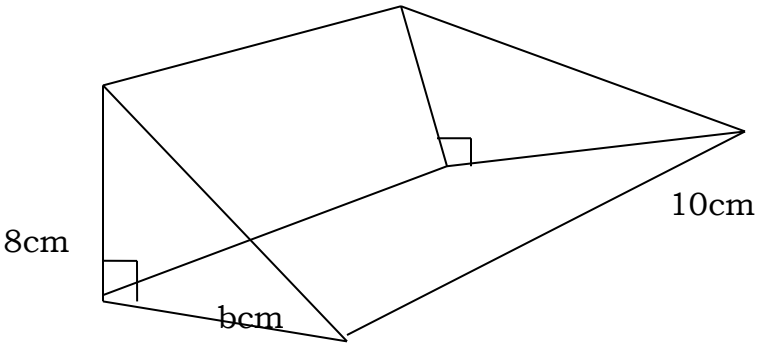
8. Find the bearing of A from B



9. Express 1215hrs to 12 hour clock system

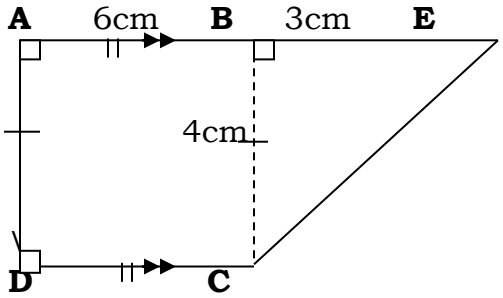
10. Change 120ml to litres.

11. The volume of a triangular prism is 240cm. calculate the base of the prism if the height is 8cm and length is 10cm.



b) Find the total surface area of the prism.

12. Use the diagram below to answer the questions that follow.



a) How many lines of folding symmetry has ABCD?

b) Find the area of ABCD

c) Calculate the area of BCE

d) Find the area of the figure

13. A tank has two taps that pour water into it. Tap A turned on alone Fill the tank in 20 minutes. Tap B turned on alone fills the tanki in 10 minutes. How long will the two taps turn on at the same time take to fill the tank?

14. Two squares have sides of length 8cm and 10cm respectively. Find the ratio of their areas.

15. a)Solve: 3a + 2(a+4)=2(2+a)	b) Simplify: 4(x-y) –(4x-4y)

P.7 MATHEMATICS REVISION ACTIVITY 7

Name: _____ **Stream:**_____

1. The table below shows the time table of the yy bus from Mbale to Kampala.

Town	**Arrival**	**Departure**
Mbale		0945hrs
Namutumba	1030hrs	1035hrs
Iganga	1100hrs	1145hrs
Jinja	1210hrs	1212hrs
Kampala	1339hrs	

a) How long did the bus take to travel Namutumba to Kampala?	b) How many more minutes did the bus spend in Iganga than Jinja?
c)What arrival time in Kampala in 12 hour clock system?	d) If the distance between Mbale and Kampala is 360km. Calculate the average speed of the bus for the whole journey.

2. The table below shows the arrival and departure time for the bus travel from Kampala to Hoima daily

Town	**Arrival**	**Departure**
Kampala		7:30am
Busunju	8:10am	8:30am
Kukomero	9:30am	9:45am
Kiboga	10:15am	10:40am
Hoima	11:40am	

i) At what time does the bus leave Kampala?

ii) How long doe sthe bus stay at Bukomero?

iii) How long does the bus take to travel from Bukomero to Kiboga?

3. Study the aeroplane time table below then answer the questions that follow

Town	**Arrival**	**Departure**
Accra		2315hrs
Entebbe	0400hrs	0435hrs
Nairobi	0645hrs	O815hrs
Khartoum	1040hrs	

a) How long does the plane take between;
   i) Accra and Entebbe?
   ii) Entebbe and Nairobi?

b) How long was the plane's stop out Nairobi?

c) How lon g did the plane take to travel from Accra to Khartoum?

4. The table below shows how a motor cyclist travelled from town R through town Q and S to town P.

Town	**Arrival**	**Departure**
R		9:00am
Q	9:30am	4:42am
S	10:35am	11:10am
P	1:30pm	

i) How long did the motor cyclist stay at town S?

ii) Find the time the motor cyclist took to travel from town R to town P.

iii) Write the arrival time at town P in 24 hour clock system

iv)If the distance from town R to town P is 240km. Calculate the average speed of the motorcyclist for the whole journey.

5. The table below shows routes taken by taxis of a company. Find the departure time in;

Route	**Time taken**	**Arrival time**	**Departure time**
A	5hr 30 minutes	1630hrs	
B	7 hrs 15 minites	1510hrs	
C	4 hrs 25 minutes	0500hrs	

i) 24 hour system

ii) a.m / p.m

P.7 MATHEMATICS REVISION ACTIVITY 8

Name: _____ **Stream:**_____

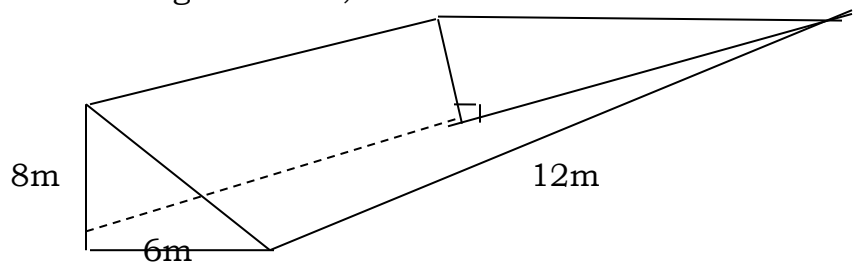
1. $\frac{1}{3}$ of the fruits in a basket are oranges, $\frac{2}{5}$ of the remainder are passion fruits and the rest of the fruits are guavas. If there are 20 guavas in the basket, how many fruits were in the basket altogether?

2. Akullo bought a T.V set at sh. 300,000 and later sold it at a loss of 7%

a) Calculate her loss in shillings

b) What was Akullo's selling price?

3. From the figure below, find h



a) Find the value of h.

b) Find the volume of the prism

c) Find the total surface area of the prism

4. A water tank at Kabagoma Primary School is $\frac{1}{3}$ full of water, when 6,000 litres of water is added it becomes $\frac{3}{4}$ full

a) How many litres of water does it contain when it is completely full

b) Find $\frac{1}{20}$ of the tank when full

5. Mr. Katungye has 3 sons. Peter, Andrew and James. Peter is 3 years other than Andrew and James is 4 years younger than Andrew. In 6 years' time their total age will be 53 years. Find the age of each boy now.

P.7 MATHEMATICS REVISION ACTIVITY 9

Name: _____ **Stream:**_____

1. What is the sum of the five five prime numbers

2. The bearing of L from M is 045^0. Use diagram to find the bearing of M from L.

3. The median of three consecutive odd number is 19. Find the sum of the number	4. At meeting, Juma, Fred and Stella shared land in the ration of 3:4:5 respectively. If Stella got 20 hectares, how much land did they share altogether?
5. Find the complement of $(y - 30)^0$	6. Solve $\frac{4}{2r - 8} = \frac{5}{r - 20}$
7. In a group, 80% of the members like science and the rest like English. If 40 pupils like English, how many pupils were there in the group?	8. Given a pattern 3,3,4,6,9,x,y,z, What is x + yz.
9. How many $2\frac{1}{2}$ metres are in 10 kilometres.	10. Subtract at 2 from 29 – 1

11. Opolot moved 80km eastwards them moved 70km Southeast wards. How far was he finally from his starting point –by the shortest route?

12. Kato drove from town 70 towards B at a speed of 80km/hr for 2 ½ hours. He spent 30 minutes at B while tasking breakfast. From B he went on town a distance of 120km while driving at a speed of 60km/hr.

a) Cacluate Kato's average speed for the whole journey.

b) Muchelle drove her car at a constant speed of 60km/hr. What distance did he cover in 90 minutes?

13. Sylvisa bought the following items from the supermarket.

- 3kg of beans at shs. 3200 each kg
- 1 ½ kg of salt at sh. 1800 every kg
- 250g of meat sh 8,000 a kg
- 8 apples at sh. 1200 every 2 apples
- 4 paper bags at sh. 4,000

a) How much money did she spend altogether?

b) If she was given a discount of 10% how much money did she pasy?

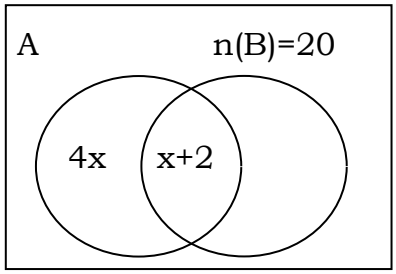
14. a)Solve 3(y + 2) = 2(y+7)	b) Solve for x. (3x-4)-(x+6)=0

P.7 MATHEMATICS REVISION ACTIVITY 10

Name: _____ **Stream:**_____

1. The volume of a cube below is 1 litre. Find the length of that cube.	2. Find the mean of 3b, b and 2b
3. Two bells ring at an interval of 30 minutes and 40 minutes. If they both rang at 8:00am, at what time will they ring together again?	4. Solve $\frac{x}{2} + \frac{x}{3} = 5$
5. If 24 is increased by x% it becomes 27. Find the value of x.	6. Evaluate $\frac{2}{3}$ x $(\frac{1}{4} - \frac{1}{12}) \div \frac{1}{5}$

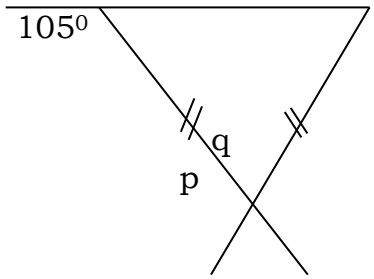
7. Use the venn diagram below to find the value of x.



8. 4 men take 9 days to slash a compound. How many more men needed to do the same job in only 2 days?

9. Find the LCM of two numbers. If their product is 250 and their GCF is 5.

10. Find the size of the angles marked P.



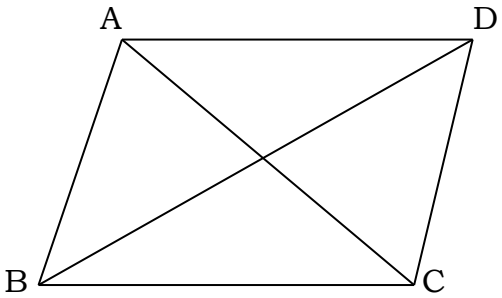
11. The table below shows how Mr. Okello spend his salary to buy the following items

a) Complete the bill shown

Items	**Quantity**	**Rate per unit**	**Cost in shs.**
Sugar	2 ½ kg	Sh. 2,200	_____
Meat	____kg	Sh. 10,000	Sh. 5,000
Soap	3 bars	_____	Sh. 3600
Salt	½ kg	Sh. 4000	Sh._____
Total			**Sh.** _____

b) If he was given an discount of 10% for all the four items. Find how much he paid.

12. The area of a rhombus is 96cm2. One of the diagonal is 12cm.



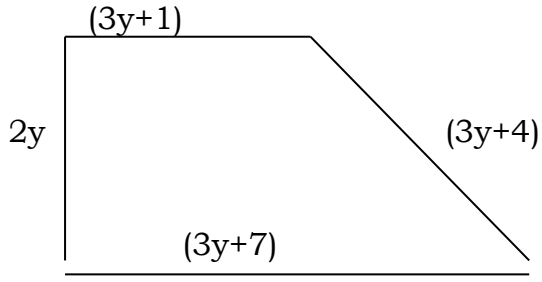
a) Find the length of diagonal BD

b) Find the perimeter of the rhombus

13. In the school garden, there are 25 more mango trees than orange tree and 30 more orange treesd than Jack fruit trees. If there are 100 trees altogether, how many trees of each type are in the garden?

14. The figure below shows a piece of land in form of a trapezium. Use it to answer the questions

a)If the perimeter of the figure is 45m. Find the value of y.



b) Find the area of the land

P.7 MATHEMATICS REVISION ACTIVITY 11

Name: _____ **Stream:**_____

1. A tax travelling at 90km/hr took 2hrs 20 minutes to cover a certain distance.

a) Find the distance covered

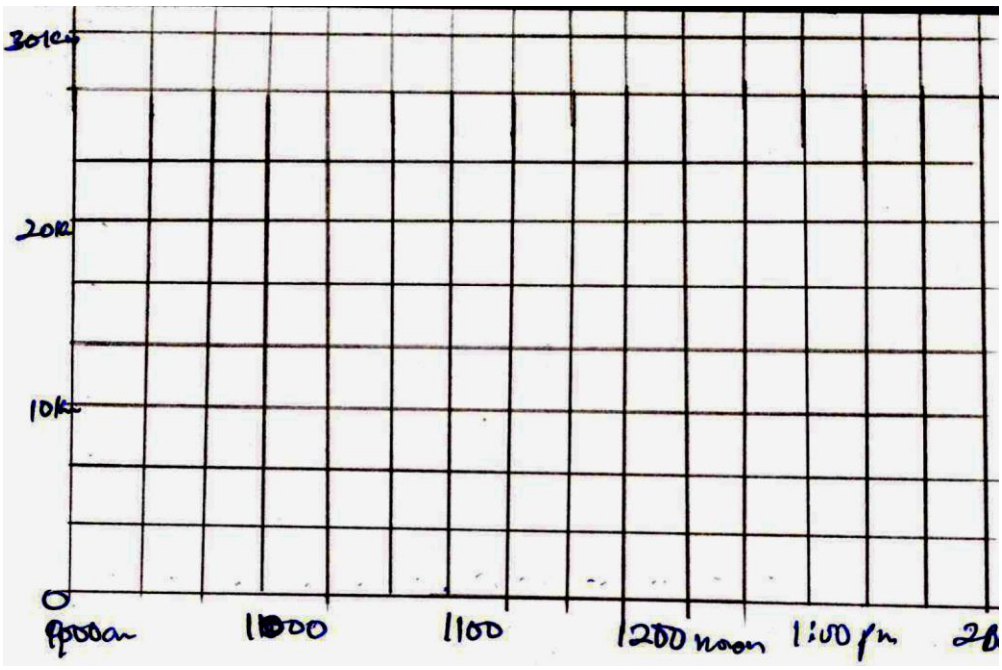
b) Peter walks 25 metres in 5 seconds. Express his speed in km/hr

2. A moptorist left town A driving at steady speed of 60km / hr for 2 hours to town B. He then left B and drove 2 hours 30 minutes to town C coverin g a distance of 120km.

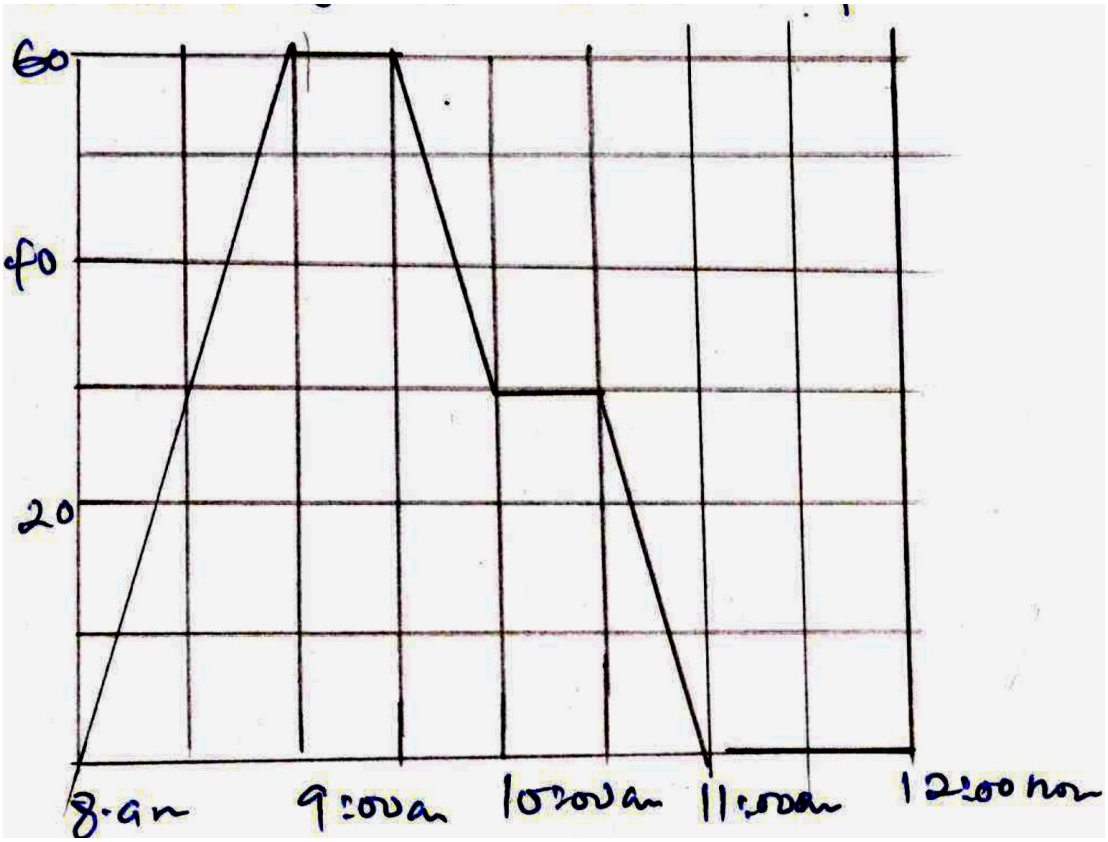
a) How far is twon B from town A?

b) Calculate the average speed of the motorist for the whole journey.

3. Emmanual left home at 8:00am riding a mororcycle at an average speed of 15km/ hr for $1\frac{1}{3}$ hrs to town A. He rested for 40 minutes ast town A then continued town B covering distance of 10km in $1\frac{1}{3}$ h without resting he retuned home reaching there at 1:00pm.



4. The graph below shows Mukasa's journey use it to answer questions that follow



a) At what time did Mukasa start the return journey?

b) What is the totasl time for stop over?

c) What was Mukasa's average speed for the whole journey in kk/hr?

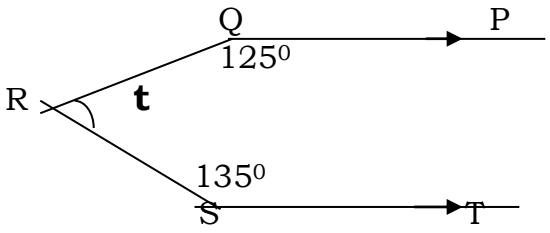
P.7 MATHEMATICS REVISION ACTIVITY 12

Name: _____ **Stream:**_____

1. What is the value of 4 in the num ber 248.5?

2. Find the square root of 12 ¼

3. Find the size of angle t in the figure

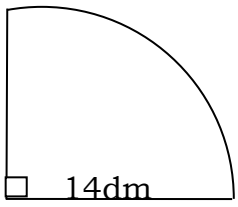


4. Given that 4 litres of a liquid weigh 3.7kg, how many kilogrammes are in 16 litres.

5. Subtract:

	Hrs	Min
	9	1 0
-	6	5 5

6. Find the perimeter of the figure below



7. If  represents 15 balls. How many pictures can be used to shown75 balls?

8. Increase 8000 by 12 ½ %

9. Arrange the following fractions in order beginning with the biggest

$\frac{1}{2}, \frac{2}{3}, \frac{3}{5}$.

10. How long will a loan of sh. 500,000 at a simple interest rate of 20% per annum take to yield simple interest of sh. 75,000?

11. A man sells mangoes in heaps of eight and ten. A heap of right mangoes cost sh.1200 and a heap of ten mangoes costs shs. 1500. He had 10 heaps of eight and 14 heaps of ten mangoes.

a) How many m angoes did he have altogether?

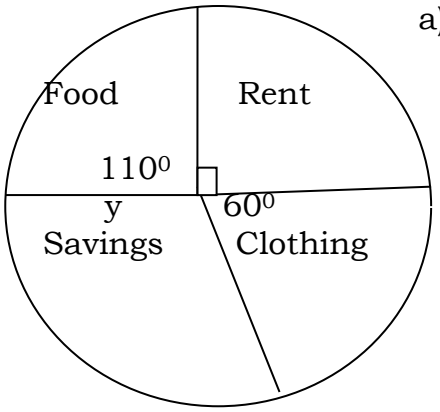
b) How much money did he get after selling all the mangoes?

12. Square tiles of side 20cm each were laid on the floor of a room measuring 600cm by 400cm

a) Find the number of tiles needed to cover the floor.

b) If a box containing 25 tiles costs sh. 30,000 find the total cost of tiles needed to cover the whole floor.

13. The pie-chart below shows how Matata spends his monthly sdalary. Study it carefully and answer the questions that follow



a) Find the value of y.

b) If he spends sh. 360,000 or clothing, how much does he earn per month

c) Express money spend on clothing as percentage

P.7 MATHEMATICS REVISION ACTIVITY 13

Name: _____ **Stream:**_____

1. Workout: 219 – 98

2. Given that set K has 31 proper subsets, find n(K)

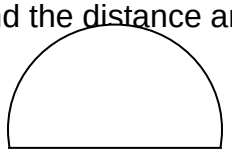
3. Write seven million sixty eight thousand three hundred four in figures

4. Simplify: $\frac{3}{4} \div \frac{7}{8}$

5. Find the next number in the sequence
   4, 7, 13, 22, 34, _____

6. Solve $2(x + 5) – 14 = 36$

7. Below is a semi circular plot of diameter 56m. Find the distance around the plot.

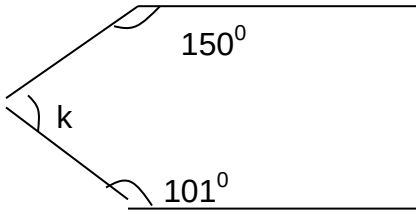


8. Evaluate: $101_{two} + 111_{two}$

9. For every 2 boys there are 5 girls in a class of 105 pupils. How many girls are there?

10. The cost of 7 plates is sh. 84,000, find the cost of 4 plates.

11. Calculate the size of angle k.



12. What is the value of;
    7.32 – 3.07 + 2.5

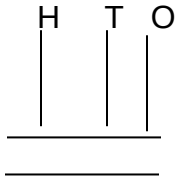
13. The population of a town increased from 40,000 to 64,000. What was the percentage increase?	14. Expand 97843 using values
15. A family uses 700ml of milk per day. How many litres of milk did the family use during the month of April?	16. Write 969 in Roman numerals.
17. Simplify: $a^4 \div a^3 \times a^6$	18. 4 men can dig a piece of land in 8hrs. How many men will be needed to complete that work in 2hrs?
19. Siolve: 2y + 6 = 5 (finite 9)	20. Given that y = 5x – 3 and that x = ˉ2 determine the value of y.
SECTION B	
21. The cost of a story book is 3 times that of a pen and sh 900 less than the cost of a novel. The total cost of the three items is sh. 9300. Find the cost of each item. (6mks)	22. A bicycle wheel has a diameter of 28cm. How many revolutions does the wheel make to cover a distance of 880m? (5mks)

23. Given the numeral 48731.;

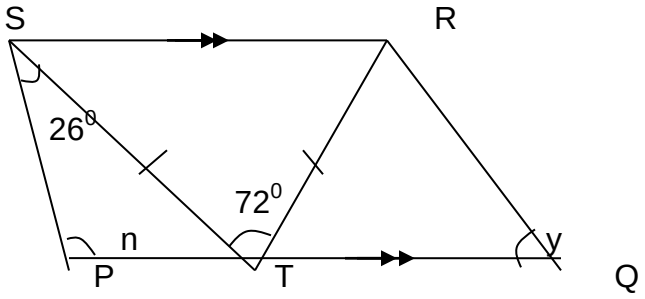
a) What is the place value of 8? (2mks)

b) What is the sum of the value of 7 and the value of 3? (2mks)

c) Represent 403 on the abacus below (1mk)



24. In the diagram below PQRS is a parallegram ST = TR, angle STR = 72^0 and angle PST = 26^0.



a) Find the value of n (2mks)

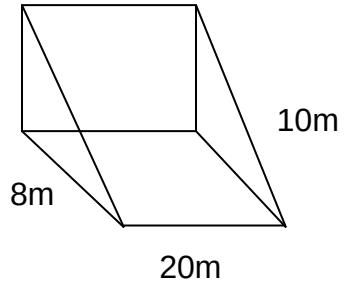
b)Find the value of y. (2mks)

25. Nduku spends $\frac{2}{5}$ of his income on food, $\frac{1}{3}$ on school fees. If he saves sh. 24,000 a month,

a) How much is his income? (2mks)

b) How much does he spend on school fees? (2mks)

26. The figure below shows a atrianguler prism.

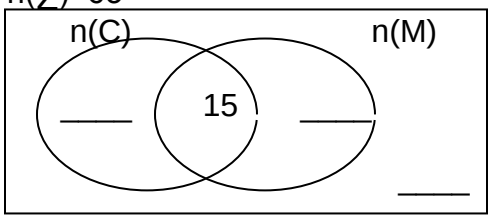


Find its valume

27. In a village of 63 farmers, 38 farmers grow cassava, 20 grow maize only, 15 farmers grow both cassava and maize and y farmers grow neither of the two crops.

a) Represent the above information on the venn diagram below.(3mks)

n(∑)=63



b) Find the value of y. (2mks)

28. Draw triangle RST in which $\overline{RS}$ = 10cm and angle R = 65^0 and $\overline{RT}$ = 7cm. construct a perpendicular bisector from R to X on ST. Measure RX. (5mks)

29. Given the exchange rates are US$ 1= 3500 Uganda shillings and Ksh 1= 30 Uganda shillings.

a) How much money in Uganda shillings can I get from US$400? (2mks)

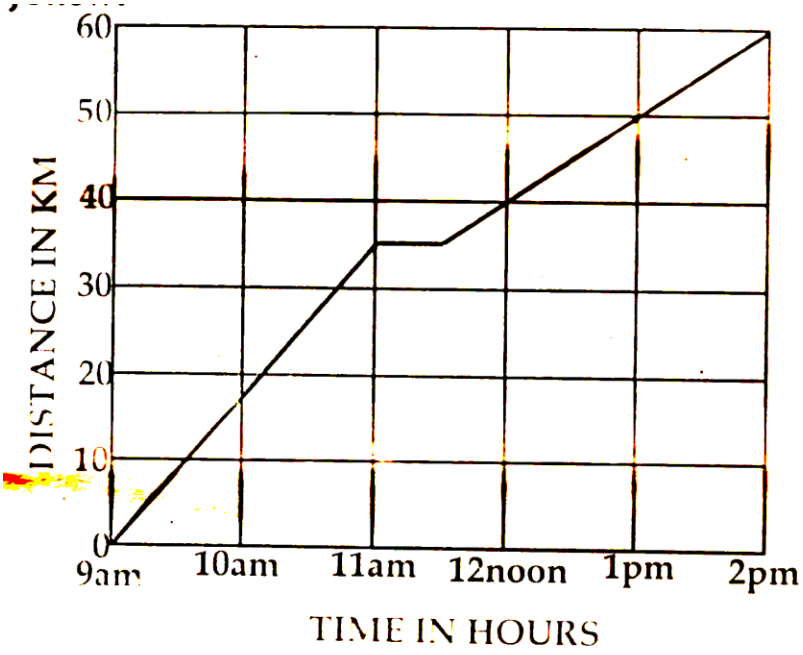
b) If a radio costs US $ 20 find the cost of the radio in Kenya shillings. (3mks)

30. A cylindrical tim of diameter 35cm is wrapped by a paper around its curved surface. What is the area of the paper used if the width of the paper is 21cm? (4mks)

31. a)Workout; $\frac{2}{5}x + 38 = 8x$ (3mks)

b) If P = 5, Q = 6 and r = 3, find the value of $\frac{pqr}{29 + qr}$ (3mks)

32. The graph below shows a cyclist's journey. Use it to answer questions that follow



a)How much time did the cyclist use to rest? (1mk)	b)What was his speed after the stop over? (2mks)
c)What was his speed for the whole journey? (2mks)	

P.7 MATHEMATICS REVISION ACTIVITY 14

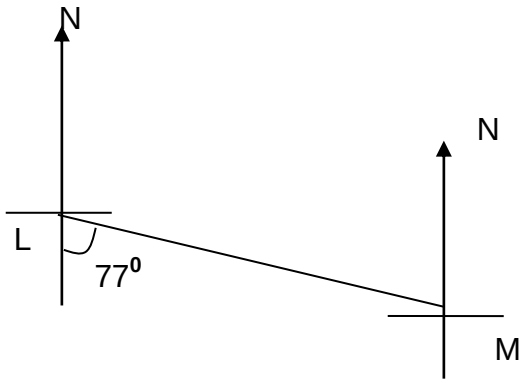
Name: _____ **Stream:**_____

1. Work out: 32 x 3.	2. Write 650,019 in words
3. Work out: 2 – 5 (finite 7)	4. Find the next number in the sequence: $\bar{}11$, $\bar{}8$, $\bar{}5$, $\bar{}2$, ____
5. Solve the equation: 7n + 2 = 23	6. Given that set N = (c, t, p), list all the subsets in N.

7. Find the number which has been expanded below: $(3 \times 10^{2}) + (5 \times 10^{-1})$	8. The profit on a shirt sold at sh . 7,900 was sh. 2,100. Calculate the cost price of the shirt .
9. Change 10 square metres into square centimeters	10. Write 9:30a.m in the 24 hour clock.
11. Workout: $\mathbf{1}\frac{1}{2} - \frac{2}{3}$	12. Find the value of the digit in the ten thousands place in the number 850634.
13. A box contains 20 pens, 10 are blue, 7 are red and the rest black. A pen is picked at random from the box, find the probability that it is a black pen.	14. Give that a = 3 and b= ¯2, find the value of $a^2 - b^3$.

15. Using a pair of compasses, a ruler and a pencil only, construct an angle of 150^0 in the space below.

16. The diagram below shows the positions of two towns L and M. Use it to answer the questions that follows.

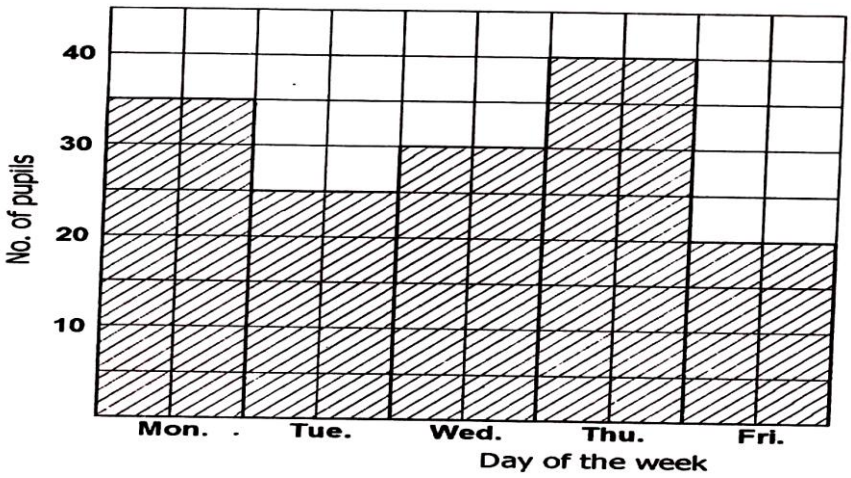


Work out the bearing of town L from town M.

17. Sixty six poles are fixed in a straight line along one side of a road. The poles are fixed at intervals of 10 metres. Calculate the length of the road.

18. A house can be built by 3 men in 20 days. How many men working at the same rate can build the same house in 12 days?

19. The graph below shows the number of pupils present in a class of 40 pupils in a certain week. Study it and answer the question that follows.



Find the number of pupils who were absent on Tuesday.

20. Find the least number of sweets when divided among 8 boys or 6 girls equally, leaves 2 sweets as remainder.

SECTION B

21. a) Workout: $3\ 3\ 4_{five} + 1\ 2\ 3_{five}$ (2mks)

b) Given that $34t = 112_{four}$, find the value of t. (3mks)

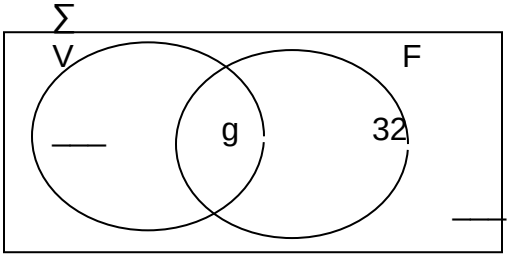
22. Akot went to the market and bought the following items:-
    - 3 litres of milk at sh. 2,400 per litre
    - 250g of salt at sh. 2,000 per kg
    - 18 oranges at sh. 1,500 for every 6 oranges.

a) Calculate the total cost of the items. (4mks)

b) Akot paid sh. 12,000 for the items. What discount was she given?

23. In a class, 32 pupils play football (F) only, g play both volley ball (V) and football, (2g – 10) play volley ball but not football while (g – 2) play neither of the two games.

a) Complete the venn diagram below using the above information (2mks)



b) Given that 62 pupils play one game only, find the value of g. (2mks)

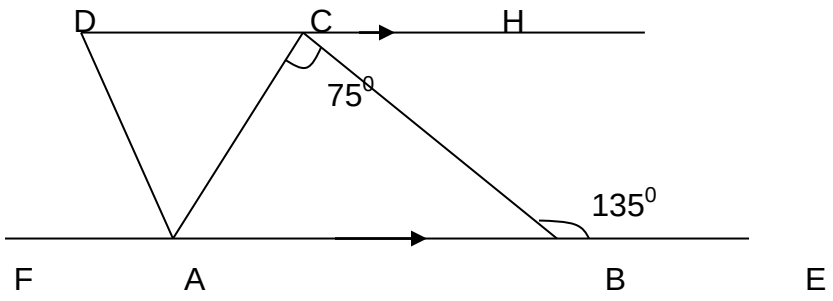
c) Calculate the number of pupils in the class. (2mks)

24. A school bus taking pupils to a game Park covered 75% of its journey in 1 ½ hours. The bus travelled at a steady speed of 80 kilometres per hour. Find how far the school is from the Game Park. (4marks)

25. a) Solve the equation: $\frac{3}{5}n + 6 = 2 + n$ (3mks)

b) Solve the inequality: $9 - 2k > k + 3$ (2mks)

26. In the diagram below, line DH is parallel to FE. Angle ACB = 75^0 and angle CBE = 135^0. Angle F AD is twice angle DAC. Study the diagram and use it to answer the questions that follow.



a) Calculate the size of angle DAC. (3mks)

b) Find the size of angle ADC. (2mks)

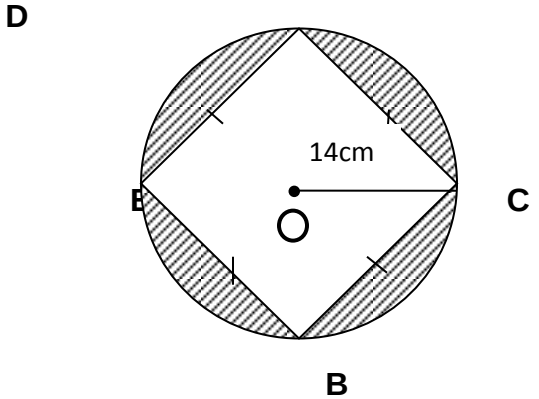
27. Arafat deposited money in a bank which offers a simple interest rate of 2 ½ % per year. After 9 months, his account had an amount of sh. 163,000. Calculate the money Arafat deposited in the bank. (5mks)

28. a) Using a ruler, a pencil and a pair of compasses only, construct a quadrilateral ABCD where line AB = 7cm, angle ABC = BAD = 60^0 and AD = BC = 3.5cm. (4mks)

b) Measure the length DC _____cm (1mk)

29. The total mass of tins of honey in a box is 3.25kg. The mass of each tin is 250g. Find the number of tins in the box. (4mks)

30. The diagram below shows a square BCDE enclosed in a circle with centre O and radius 14cm. Parts of the circle are shaded as shown. Study the diagram and use it to answer the questions that follow.



a) Calculate the area of the circle.
(Use $\pi = \frac{22}{7}$). (2mks)

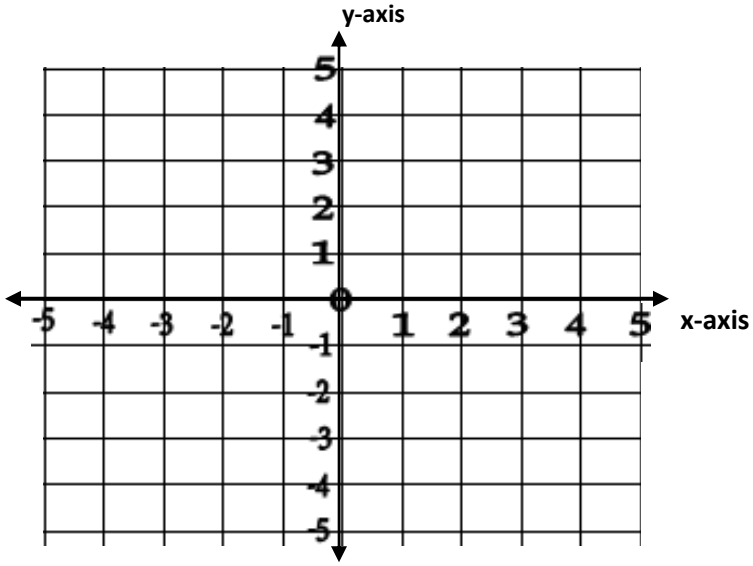
b) Find the area of the shaded part. (4mks)

31. In a class, $\frac{1}{5}$ of the girls are boarder while $\frac{1}{3}$ of the boys are day scholars. The percentage of the girls in the class is 60%. The class has 10 boys who are day scholars.

a) How many pupils are in the class? (3mks)

b) Find the number of girls who are boarders.(2mks)

32. Study the coordinate graph below and use it to answer the questions that follow.



a) Write the coordinates of point A (1mk)

b) Plot the points B (+2, +2) and C (-1, -4) on the graph. (2mks)

c) Join points A to B and B to C. (1mk)

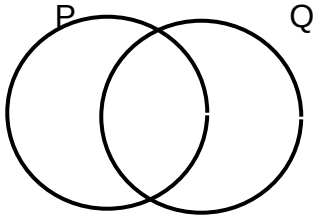
d) Locate a point D on the graph, join it to A and C such that ABCD is a kite.

P.7 MATHEMATICS REVISION ACTIVITY 15

Name: _____ **Stream:**_____

1. Subtract: 194 – 87

2. Shade the region of P – Q



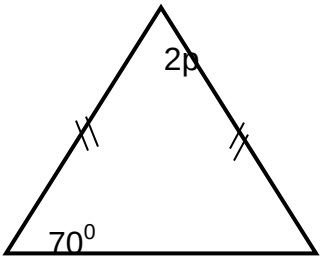
3. Write 159 in Roman

4. Round off 76.753 to the next whole number.

5. Find the average 3, 4 and 5.

6. Solve 5+p = 13.

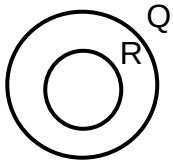
7. Calculate the value of p



8. Express 2:45pm time in 24 hour o'clock.

9. Using the following digits 3,4,5 write down the all even numbers using the digits.

10. Using the venn diagram to complete the statement given after.



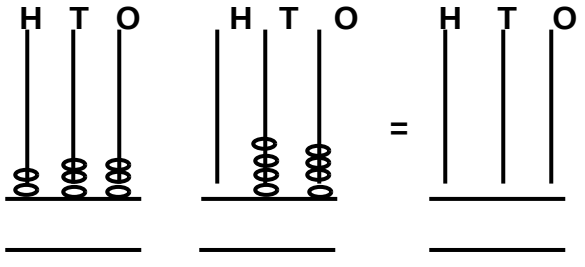
_____ is a subset of _____

11. The average of 7, 2x and 5 is 10. Find the value of x.

12. What is the place value of 3 in the number 321_{five}?

13. Workout: $1\frac{1}{2} + \frac{3}{4} \div 1\frac{1}{2}$

14. Complete the abacus below



15. A meeting started at 8:30am and lasted 50 minutes. A t what time did it end?

16. Workout: $\frac{1}{9} \times \frac{3}{5}$

17. The cost of 250g of sugar at sh.3200g per kg.

18. The average of 5 numbers is 20. Find the sum of the numbers.

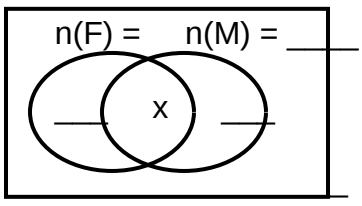
19. Workout: $4P^3 \div P^2$

20. 12 technicians can paint a school building in 10 days. How long will 15 technicians take?

SECTION B

21. In a class of 20 pupils, 12 eat fish (F), 15 eat meat (M), x eat both and 3 eat none of them.

a) Complete the venn diagram below:-



b) Find the value of Y

c) How many pupils ate only one type of food?

22. a) Express $\frac{5}{8}$ as a decimal fractions

b) Change 0.3636…. as a common fraction.

c) Write 0.245 in words.

23. The average mark of 36 pupils in a class is 5. Two pupils whose marks are 20 and 24 leaves the group. Find the average mark of the remaining pupils.

24. The are 20% more girls than boys in a class;

a) What is the percentage of boys in the class?

b) If there are 60 boys in the class, how many pupils are there altogether?

25. A mother went for Christmas shopping as shown in the table below. Complete the table correctly.

Item	**Unit cost**	**Quantity**	**Amount**
Sugar	Shs. 3000 each kg	3 ½ kg	Shs. 10500
Carrots	Shs. ____per kg.	2 ½ kg	Shs. 5000
Meat	Shs. 10000 per kg	750g	Shs._____
Rice	Sh. 2500	___kg	Shs. 5000
Salt	Shs. 1200 each kg	3 kg	Shs. _____
Total			Shs._____

26. The mean score of 6, 9,7, 4, $\bar{x}$5 is 0.

a)

b) Find the value of x.

c) Calculate the range of the number.

27. a) If 66 $\frac{2}{3}$ % of a number is 7200. Find the number

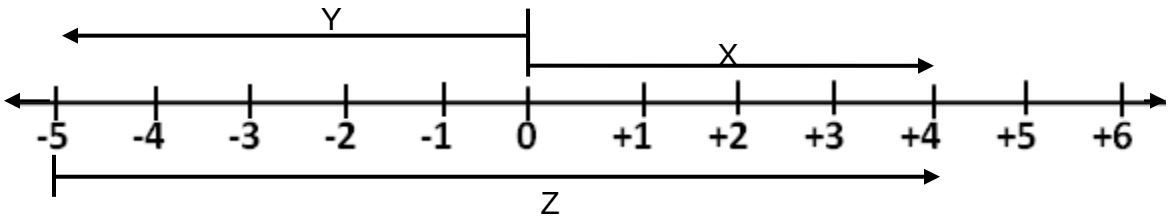
b) Express 0.1222… as a common fraction.

28. a car travelled from Kampala to Jinja at a speed of 120km/hr for 1 ½ h and continued to Iganga at a speed of 80km/hr for 2 hours.

a) Find the distance from Kampala to Iganga.

b) Calculate the speed of the car for the whole journey.

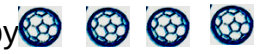
29. Use the number line below to answer the questions that follows



a) Name the integers marked with the letters

X=_____ Y=_____ Z= _____

b) Write the Mathematical sentence shown on the number line above?

30. a)If  represent 15 balls. How many balls are represents by  ?

b) If one ball costs sh. 25,000, how much can one pay for the balls represented above?

31. a) The cost of a pen and a book are in a ratio of 4:5. If a pen costs shs. 2500. Find the cost of a book.

b) Increase 1800 in the ratio of 6:5.

c) Increase 8000 by 12 ½ %

32. The talk show the marks scored by Peter in 4 subjects, represent Peter's performance on a pie chart. Use a circle of radius 3:5cm.

Subject	English	Maths	Science	Social studies
Marks	60	70	80	90

P.7 MATHEMATICS REVISION ACTIVITY 16

Name: _____ **Stream:**_____

1. Find the value of 9 tens and 4ones.	2. Given that A=(cow, goat). Write down all the subsets.
3. What is the place value of 9 in the number 46.97?	4. There are 4 red pens and blue pens in a pocket a teacher picks one at random. What is the probability that the pen picked is a red one?
5. Simplify: -4 + -7	6. Find the GCF of 24 and 16
7. Workout: $10^2 \times 10^1$	8. Round off 9492 to the nearest hundreds
9. Express $\frac{5}{8}$ as a decimal fraction.	10. Express 572 as a roman numerals.
11. Divide $17\overline{)5984}$	12. Calculate 3 + 4 x 5

13. What is the 12^{th} triangular number?

14. Find the sum of the first 5 composite numbers.

15. What is the difference between the largest and smallest number that you can write with the following digits 7, 8, 3, 4, 2, 9?

16. List elements in a set of even numbers between 8 and 30.

17. The sum of three consecutive counting numbers is 36. What are these numbers?

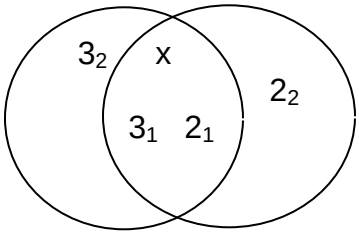
18. What is the sum of the 3^{rd} and the 7^{th} prime number.

19. Given that prime factors of 90 are 2 x 3 x 3 x k. Find the value of k.

20. Find the value of $2^3 + 3^2 + 5^0$.

SECTION B

21. Study the venn diagrams and answer the questions



a) Find the value of

i) x

ii) y

b) Find the GCF and LCM of 80 and y.

22. a) Simplify: $\frac{0.72 \times 0.6}{0.12 \times 0.3}$

b) Simplify: $\frac{3}{5} + \frac{1}{3} \div \frac{2}{3}$

c) From a roll of 10 metres a tailor makers a shirt using 1 ¼ metres each. How many shirts does the tailor make?

23. In a class of 180 pupils, $\frac{2}{5}$ of them were sent home school fees and the rest had paid fee.

a) What fraction of pupils had not paid fees at the time?

b) How many more pupils have paid than those who were sent?

24. A trader borrowed shs. 500,000 from a bank at an interest rate of 10% per annum.

a) How much did he pay after 6 months?

b) How much interest must he pay after 2 ½ years?

25. There are 40% more girls than boys in a class.

a) What percentage are boys in the class?

b) How many pupils are there in the class?

c) If there are 21 girls in the class, how many pupils are there is the class?

26. 12 women can do a piece of work in 5 days.

a) How many women are required to do the same job in 6 days.

b) How long will 15 women take to do the same piece of work?

27. Study the table below and use it to answer the questions that follow

Age in years	10	11	12	13	14	15
No. of pupils	2	15	14	4	4	1

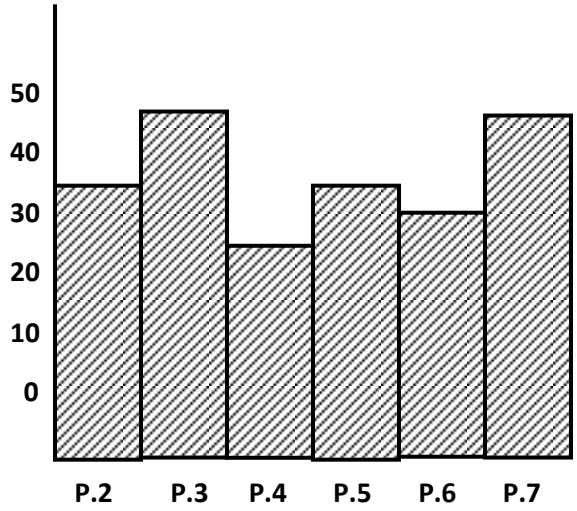
a) What is the modal age?

b) Find the median age.

c) Find the range

d) Calculate the mean age.

28. The graph shows the number of pupils in a school. Study it carefully and answer the questions below



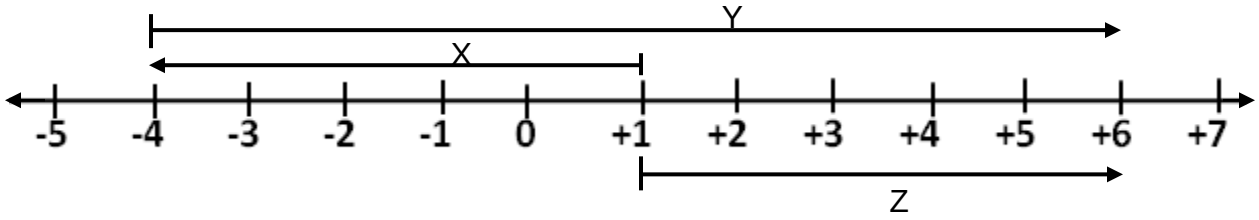
a) What is the modal age?

b) Find the median age.

c) Find the range.

d) Find the mean.

29. Study the number line and use it to answer the questions that follow



a) Name the integers marked by letters

X _____

Y_____

Z_____

b) Write the Mathematical statement shown on the number line shown above.

30. Amos has bank notes numbered from AP004300 to AP004399.

a) The bill below was prepared by Magalu to buy items from a shop. Study it carefully and find the missing parts.

Item	**Quantity**	**Unit cost**	**Total**
Rice	3kg	Sh. 2800 each kg	
Meat	2 ½ kg	Shs._____	Sh. 25000
Sugar	_____kg	Shs. 3200 per kg	Sh. 9600
Banana	_____ bunch	Shs. 15000	Sh. 15000
Total			Shs. _____

b) Find the balance of Mugalu if he went to shop with sh. 50,000.

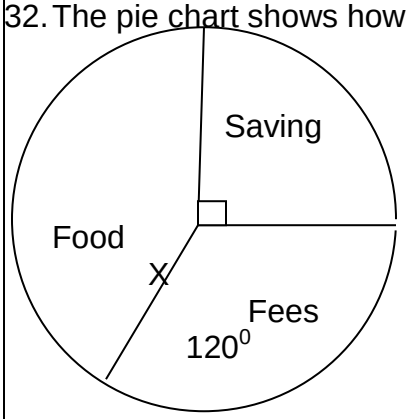
31. a) How long will it take a bus to cover a distance of 120km at 40km/hr?

b) A car moving at 120km/hr take 20 minutes to cover the journey. How long is the journey?

32. The pie chart shows how a family spent shs 120,000/=

a) Find the value of Y.

b) How much is spent on fees?



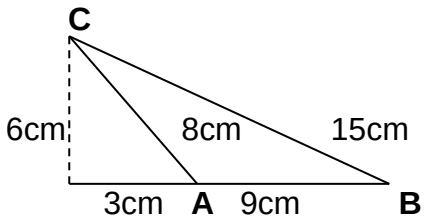
c) Express sector for food as percentage.

P.7 MATHEMATICS REVISION ACTIVITY 17

Name: _____ **Stream:**_____

1. Multiply 204 x 15.

2. Given that A = (1, 2, 5, 6, 7) and L = (2, 3, 4, 5, 8). Find the number of subsets in set A∩ B.

3. Decrease 460 by 30%	4. In the figure below, find the area of triangle ABC. 
5. Workout: 7 + 5 x 3	6. Change 1450hrs to 12 hour o'clock system.
7. The price of a radio is sh. 430,000 and shopkeeper sold it at sh. 412800. Calculate the percentage loss.	8. Convert 12 ½ % as a common fraction in its lowest form.
9. What is the smallest number which when divided by 9 or 12 leave no remainder.	10. Multiply: 124_{five} x 4

11. Express 0.122… as a common fraction in its lowest form.

12. 6 porters can dig a piece of land in 5 days, how many days will 15 porters take to do the same piece of work?

13. Simplify: $\frac{1.2 \times 0.06}{0.004}$

14. Simplify: $(3\frac{1}{2} \div 2\frac{1}{2}) \times 2\frac{2}{3}$

15. Workout: $2^2 \times 2^3$

16. The LCM of two numbers is 60 their GCF is 6. If one of the number is 12. Find the second.

17. Find the simple interest of sh. 120,000 for 6 months at 5% interest per year.

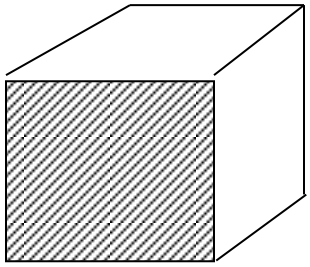
18. The mean of 5 numbers is 4. Find the sum of 5 numbers.

19. Study the clock below and use it to tell the morning time

20. Increase sh. 45000 in the ratio of 4:3.

SECTION B

21. Given that the total surface area of a cube below is $384cm^2$. Use it to answer questions that follows



a) Find the length of each side.

b) Find the volume of the cube.

c) Calculate area of the shaded part

22. A family spent 40% more on school fees than clothing.

a) What percentage was spent on clothing?

b) If the family spend sh. 100,000 on clothing, what is the family total expenditure?

23. a) The sum of three consecutive odd numbers is 93. If given that x is the second number. Find the value of x.

b) What is their median?

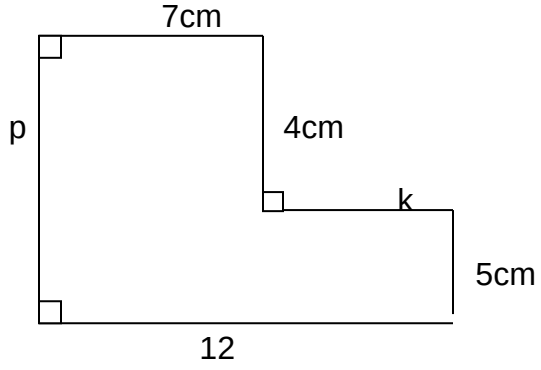
24. Mwesigwa shared sh. 480,000 in his three children; Muwanga, Nakamatte and Babirye in the ratio of 4:3:5 respectively

a) How much money did each child get?

b) How much more money did Babirye get than Nakamatte?

c) What fraction of money was given to Muwanga?

25. Study the figure below carefully and use it to answer questions that follows.



a) Find the value of;

i) K

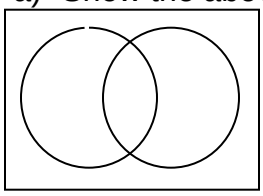
ii) P

b) Find the area of the figure

c) Calculate the perimeter of the figure.

26. In a class of 60 pupils, 36 pupils like Science, 20 pupils like English and 10 do not like any of the subjects.

a) Show the above information on a venn diagram



b) How many pupils like only English?

c) What is the number of pupils who like one subject only.

d) If one pupil is elected a class monitor, what is the probability that a pupil who like English only is chosen?

27. In a class of 90 pupils, $\frac{1}{3}$ of them have pens, $\frac{1}{4}$ of rthe remainder have pencils and the rest have books.

a) Find the number of pupils who had the books.

b) How many pupils have pencils?

c) How many pupils have pens?

28. Given that 202_{K} = 52ten. Find the value of K.

b) Convert 101_{two} to base five

c) Express 232_{four} to decimal base.

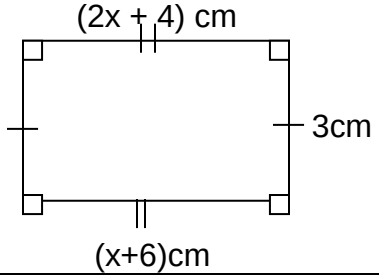
29. a) Express $\frac{3}{4}$ as a common decimal.

b) Convert 0.1212… as a common fraction

30. a) Sarah has 400 more chicken than John their total number of chicken is 2000. How many chicken does each have?

b) Mbidde is twice as old as his sister. Their total age is 48 years, how old is his sister?

31. In the rectangle ABCD below find;



i) Find the value of x.

ii) Actual length and width

iii) Find the perimeter of the rectangle.

32. The mean age of 3 boys is 14 years. Two of the boys are 13 years and 15 years respectively. Calculate the age of the third boy .

P.7 MATHEMATICS REVISION ACTIVITY 18

Name: _____ **Stream:**_____

1. Solve $3^x \div 3^2 = 27$	2. Use distributive property to work out; (448x37) – (37 x 148)
3. Write sh. 120,580 in words.	4. In a school of 480 pupils, 280 play football and 440 play volley. How many pupils play both?
5. Multiply: 2.23 x 2.5	6. $\frac{2}{3}$ of the books in the bookshop are school text books. How many books are in the bookshop altogether if the text books are 240?
7. If 40% of the class are absent,	8. The marked price of a book is sh. 4000. If a customer is offered a 10% discount.

9. Calculate the rate of interest if sh. 30,000 can yield a simple interest of sh. 1125 in 9 months.

10. The average make of 4 girls is 30 marks and if the fifth girl joins the average becomes 25. Find the score for the fifth girl.

11. Given the number 0.475

a) Write the number in standard form

b) Expand the number using powers of ten

c) Find the sum of the value of 4 and 5.

12. The table below shows arrival and departure time for a bus from Kampala to Iganga, Study it and answer questions that follow.

Town	**Arrival**	**Departure**
Kampala		0845hrs
Kawolo	0930hrs	0935hrs
Jinja	1000hrs	1015hrs
Bulanga	1045hrs	1100hrs
Iganga	1215hrs	

a) For how long does the bus take to travel from Kawolo to Bulanga?

b) How long does the bus take at Jinja park?

c) If a bus traveled at an average speed of 40km/hr from Jinja to Bulanga, find the distance between the two towns.

13. Given that 81 dollar = ugsh. 2200 and 1ksh = ugsh 30. How much Uganda shilling can be changed for;

i) 200 US dollar

ii) 4600 Kshs.

14. Complete the table below by showing the working in the space provided below

Item	**Quantity**	**Unit price**	**Total cost**
Loaves of bread	3 loaves	Shs. _____	Shs. 12,000
Meat	_____kgs	Shs. 8,000 @ kg	Shs. 20,000
Soap	4 bars	Shs. _____ a bar	Shs. 15,200
Salt	1 ½ kg	Shs. 1200 a kg	Shs. _____
		Total	**Shs.**_____

If Amos was given a discount of 10% for cash payment, how much money did he pay to the shopkeeper?

15. Using a pencil, a ruler and a pair of compasses only,
    a) Construct a triangle RST where ST = 5cm LS = 120^0 and angle T = 30^0, drop a perpendicular line from K to meet ST at Y.

    b) Measure line $\overline{RY}$

P.7 MATHEMATICS REVISION ACTIVITY 19

1. Find the value of 4 tens + 9 ones.

2. What is the reciprocal of $\frac{2}{5}$?

3. Find the cube root of 216.

4. Find the sum of next two numbers in the sequence
   1, 3, 6, 10, ____, _____

5. Convert 51ten to base four.

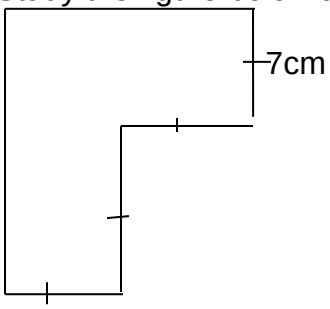
6. Find the LCM of 12 and 16

7. The sum of three consecutive counting is 18.
   Find the numbers.

8. Find the perimeter of the square whose area is $64cm^2$.

9. Work out: $\frac{3}{4} \div \frac{3}{2}$ =

10. Study the figure below and answer the questions



Find the perimeter of the figure.

11. Divide 1414 ÷ 7

12. The mean of three consecutive even numbers is 30. Find the numbers.

13. Find the sum of 8^{th} and 11^{th} triangular.

14. Add using dial 4+2 = ____(mod 5)

15. Find the diameter of a circle whose radius is 7cm

16. Find the angle made in $\frac{4}{5}$ revolutions.

17. Use the number line to add $^{+}4 + {}^{-}2$

18. Simplify: $\frac{2 \cdot 3 + 2 \cdot 4}{3 \cdot 4 - 2 \cdot 1}$

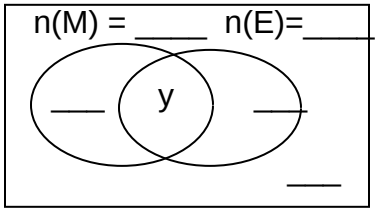
19. Multiply: 0.25 x 10

20. What is 25% of sh. 120,000?

SECTION B

21. In a class of 50 pupils, 33 pupils like Mathematics (M), 32 pupils like science (S), some pupils like botk subjects while 5 pupils like neither of the subject.
    a) Complete the venn diagram below

n(∑)=____

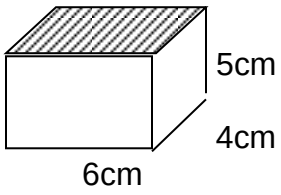


b)How many pupils like only one subject?

c) What is the probability of picking a pupil to lead others who do not like Mathematics?

22. Study the figure and use it to answer tfhe questions that follows

a)Find the area of the shaded part.



b)Calculate the volume

c)Find the total surface area of the figure above.

23. Annet is 12 years older than Peter. If their total age is 50 years.

a) How old is each now?

b) How old will Peter be in 10 years?

24. Arrange the following fractions in a scending order; $\frac{1}{6}, \frac{2}{3}, \frac{1}{4}, \frac{2}{5}$

25. In a class of 120 pupils, $\frac{1}{3}$ of the pupils use blue pens and the rest use black pens.

a). What is a fraction of pupils who are using black pens?

b). If those who use blue pens each has five blue pens. Find the total number of blue pens they have?

26. Wandera drove his car from town a to town B at a speed of 60km/hr for 2 hours and another 3 hours from town B to town C at the same speed.

a) How far is town B from A?

b) How far is town C from B?

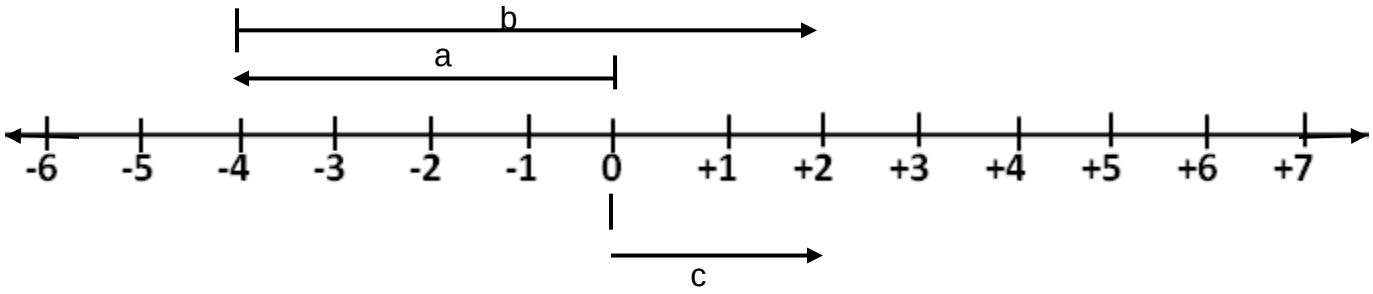
c) Calculate the average speed for the whole journey.

27. Given that a = b = 3 and c = 2. Find the value of;

a) $\frac{2ab - 3c}{ac}$

b) $2b^2 + c$

28. Study the number line below and answer the questions that follow



i) Name the integers marked letters

a_____ b_____

c_____

ii) Write the Mathematical statements shown on the above number line

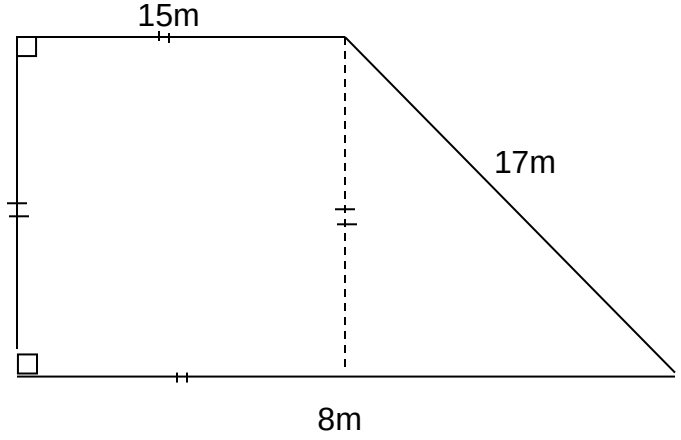
29. Anna, Shafia and Hamuza shared money in ratio of 8:13:19 respectively. If Hamuza got sh. 190,000.
    a) How much money did they share altogether?

30. Using a ruler, a pair of compasses, construct a regular pentagon in a circle whose radius is 3.5cm.

31. Use the number 467.32 to answer the questios that follow

a) Write the above numeral in words.	b) Find the product of the value of 6 and 7	c)Find the difference between the value of 4 and the value of 6.

32. The figure below shows Mr. Kato's compound.



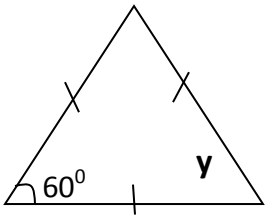
a)Find the perimeter of Kato's compound	b) Calculate the area of Kato's compound.

P.7 MATHEMATICS REVISION ACTIVITY 20

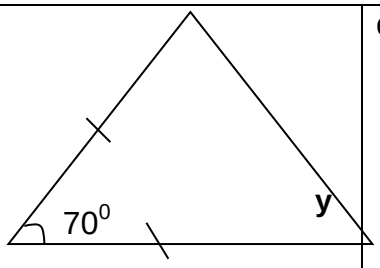
1. Divide 0.24 ÷ 8	2. Change 30 minutes to hours
3. Find the square root of 0.49	4. 6 men can do a piece of work in 5 days. How many men is needed to do the same piece of work in 10 days?

5. Find the value of y.

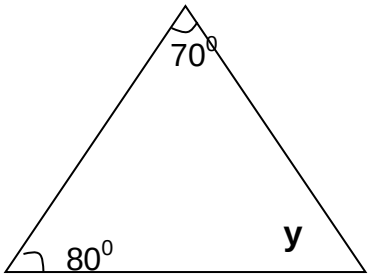
a)



b)



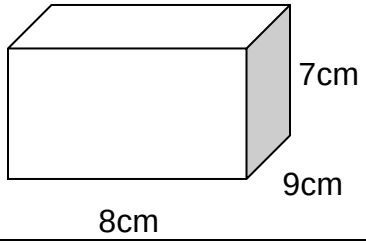
c)



6. The sum of three consecutive odd numbers is 450. Find the numbers.

7. Express 0.888… as a common fraction in its lowest term.

8. Find the total surface area of the figure below



9. a) Simplify; $\frac{0.6 \times 1.8}{0.2}$

b) Simplify: 7.5 - 0.6

10. Given that n(A) = 20, n(B) = 25 and n(A∩ D) = 12. Show the information on a venn diagram and find $n(A \cap B)^1$.

11. Construct an angle if 120^0 in the space provided below.

12. Expand 1245 using powers of tens.

13. Find the reciprocal of $\frac{3}{8}$?

14. Share 360 in the ratio of 3:2.

15. Workout (2 x 17) + (13 x 2)

16. In a box, there are 4 blue pens and 9 Red pens. What is the probability that one pen is pulled at random is Red pen?

17. Convert 2 litres to ml.

18. Simplify: $\frac{2^3 \times 2^2}{2^3}$

19. The LCM of two numbers is 48 and their GCF is 4. If one of the number is 12. Find the second number.

20. Workout $\frac{1}{2}$ of (15 ÷3)

SECTION B

21. Workout: $\frac{0.36 \times 7.5}{0.09 \times 1.5}$

b) Simplify $\frac{1}{3} - \frac{1}{2} + \frac{3}{4}$

22. The average of 7, x, 3, 9, 8 and 10 is 80.

a) Find the value of x.

b) Find the range of the numbers

c) Find the median

23. a) Simplify 9h + 3k – 4h – k	b) Solve 4x – 3 = x + 6.
24. A bus left town A at 9:50am and reached town B at 11:50am. If the distance between town A and town B was 138km.	
c) How many hours did the bus take to cover the distance?	d) Calculate the speed of a bus between town A and town B.
25. a) What is the place value of 5 in the number 45.964?	b) Which number has been expanded to give; $(6x10^{3}) + (4x10^{-2}) + (5 \times 10^{1}) + (3x10^{-1}) + (9x10^{0})$
26. a) Increase sh. 160,000 by 20%	b) Decrease 400kg by $\mathbf{12}\frac{1}{4}\%$

e) Decrease 900 by 3:2

27. Global Junior Primary School has two bells, which ring in intervals of 30 minutes and 40 minutes for lower and upper primary respectively. If both bells were rung at 10:00am. At what time will the two bells ring together again.

28.

Currency	**Buying rate**	**Selling rate**
1 pound sterling(E)	Ug.sh. 4200	Ug. Sh. 4250
1 US dollar (U$s)	Ug. Sh 3500	Ug.Shs. 3600
1 Kenya shilling (Ksh)	Ug. Shs 29	Ug Sh. 30
1 Euro	Ug. Shs. 3200	Ug.Sh. 3300

b) A tourist arrived in Uganda with $150. How much in Uganda shilling will get?

c) Moi wants to buy a television in Kenya shillings. If the cost of a TV in Ug. Shs. 480,000. How much in Kenya shilling will he get?

d) Tamu has euros equivalent to Uganda sh. 12,480,000. Find how much is Euros Tamu will get?

29. Okot bought the following items from the market;
- 3kg of sugar at sh. 3400 per kg
- 1 ½ kg of rice at sh 3600 pe rkg
- 1500gm of maize flour ast shs. 3,000
- 8 mangoes at shs. 500 each

a) What is the cost of a kg of maize flour?

b) Calculate his total expenditure

c) Find his change if he had shs. 30,000.

30. a) By what percentage will 480 be increased to 540?

b) A book was bought at sh. 8000 and was sold at sh. 9000. Calculate the percentage loss

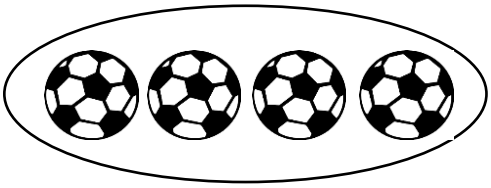
c) Claculate the percentage loss of cost price is sh. 5800 and selling price is sh. 5000.

31. a) Express 72km/hr to m/s

b) A bus takes 6 hours to cover a distance at 80km/hr but it returns in only 4 hours. Calculate its average of speed for the whole journey.

SECTION A

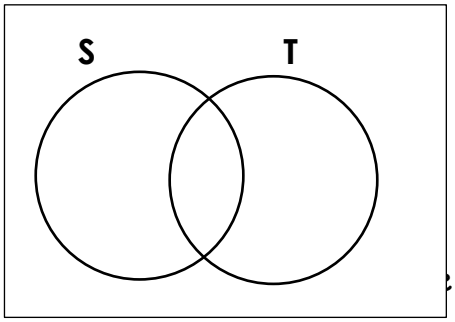
1. Name the set below.



2. Given that set V = {teach), find n(V)

3. Set K = {a, b, c, d, e} and
L = {b, a, n, d}. List the members of K∩L.

4. Shade the complement of SUT on the Venn diagram below.

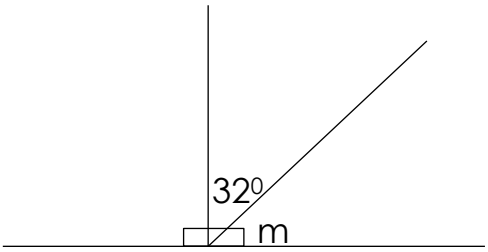


5. value of a if 3a + b = 90.

6. If W = {8, 9, 10}. List down all the subsets that can be got from that set.

7. Set R has 127 proper subsets. how many members does set R have?

8. Calculate the size of angle m in degrees.



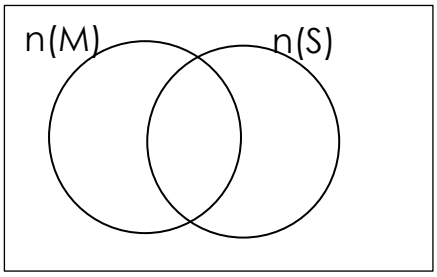
9. Andrew is 30 years younger than Moses. In 12 years' time, Moses will be twice as old as Andrew, how old is Moses now?

10. Using a sharp pencil, a ruler and a pair of compasses only, construct an angle of 105^0 in the space provided below.

SECTION B

11. In a group of teachers of Kiswa primary School, 24 teaches teach Mathematics (M), 16 teachers teach Science (S), 14 teachers teach both Mathematics and Science while 20 teachers do not teach any of the two subjects.

(a) Represent the above information on the Venn diagram below.



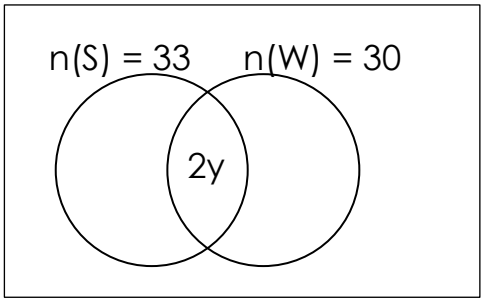
(b) How many teachers are at Kiswa Primary School?

12. Morris went to the super market and bought three items at a total cost of Shs. 7600. The cost of a mathematical set was four times the cost of a pen and the cost of a ruler was a third the cost of a mathematical set. Workout the cost of each item.

13. At a certain party attended by 53 guests, 33 guests took sodas (S), 30 guests took mineral water (W), 2y guests took both sodas and mineral water and 20 guests took water only.

(a) Show the above information on the Venn diagram below.

$\sum = 33$



(b) Find the number of guests that took only one type of drink.

(c) What is the probability of picking a guest that took both types of drinks?

PAPER 1

SECTION A

1. Add: 909 + 122.

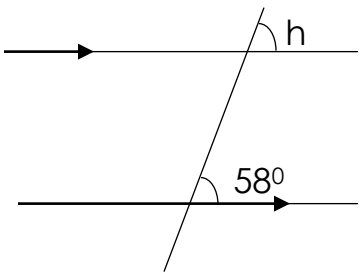
2. Write one thousand four hundred sixty in roman numerals

3. Work out: $x^6 \times x^2$.

4. Simplify: $4x - 3q + 6x + 5q$

5. Solve: $2x + 40 = 100$

6. Find the size of angle h.



7. Change 108 ten to binary base.

8. What is the complement of 60 – x.

9. Using a ruler and a pair of compasses, construct angels of 75^0.

10. Find the next number in the sequence.

1, 4, 9, 16, _____.

11. Change 12:30a.m to 24hr clock system.

12. Pepito's speed is 25m/s. change this to km/hr.

13. Show -3 x 2 on a number line.

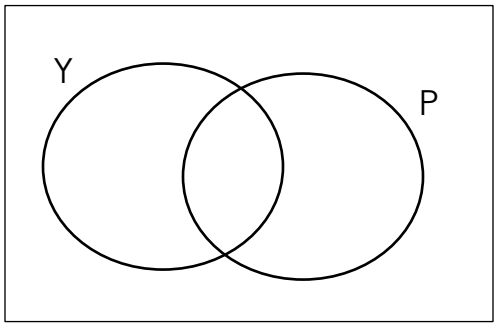
14. Add:

$$\begin{array}{r} 1101_{two} \\ +\ 1011_{two} \\ \hline \\ \hline \end{array}$$

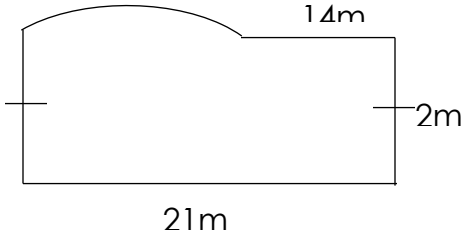
15. Given that: z = -3, y = 2 and x = -2. Find the value of;

$$\frac{zx}{y}$$

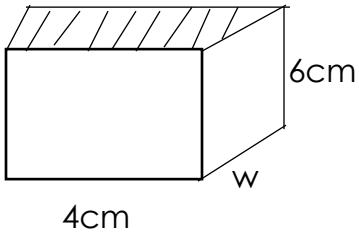
16. Shade region (P).



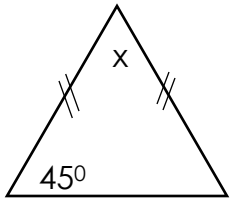
17. Find the perimeter of the figure below.



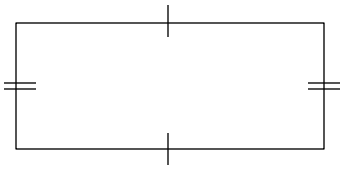
18. Find the volume of the above shape. If the area of the shaded part is $48cm^2$.



19. Find the value of x.



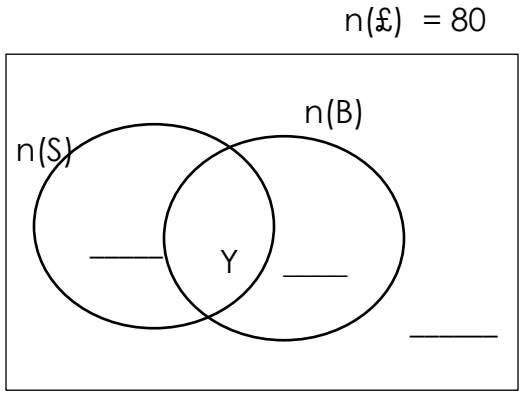
20. Draw the lines of folding symmetry.



SECTION B

21. At a party of 80 guests, 60 drunk Soda (S), 30 drunk Beer (B), Y drunk both while 3 drunk other beverages.

(a) Show the above information on the Venn diagram. (3 marks)



(b) Find the value of Y and the guests who drunk beer only. (2 marks)

22. Patricia went to the market and bought the following items.

2kg of rice at 2,000/= per kg.

$1\frac{1}{3}$ litres of oil at 6,000/= per litre

250g of sugar at 4,000/= per kg.

2 dozens of pencils at 2,000/=

(a) Find his total expenditure. (4 marks)

(b) If his change was 15,000/=, find the amount he went with. (2 marks)

23. Simplify;

(a) $\frac{0.8-0.4}{0.2}$

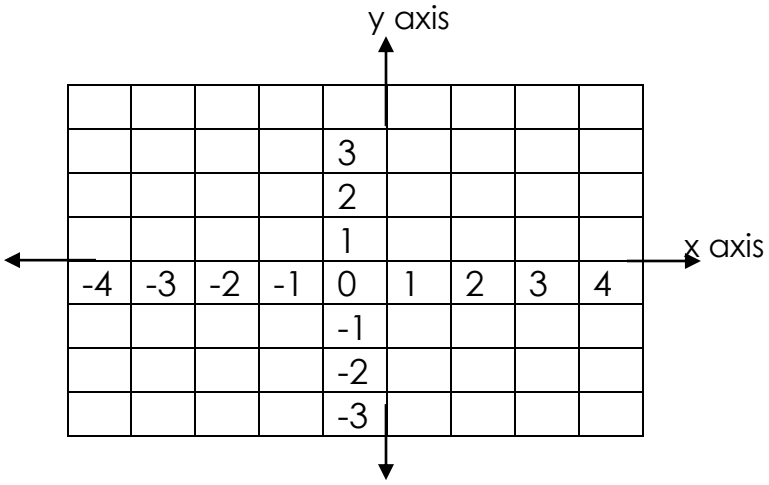
(b) ½x + 4 = 10 (3 marks each)

24. Using a pair of compasses, a ruler and a pencil, construct a rhombus given diagonal PR = 6cm, diagonal QS = 4cm.

(3 marks)

25. On the graph below, plot points; A (-2, 2), B (-2, -2),

C (+2, -2), D (4, 2) (4 marks)



(b) Join A to B, B to C, C to D and D to A (1 mark)

(c) Find its area using cm as the units. (2 Marks)

26. Patience borrowed 600,000/= at an interest of 10% per year for 5 months. Find her interest. (2 marks)

(b) Find the amount she paid back altogether. (2 marks)

27. The following are marks scored by pupils in a test; 90, 60, 80, 90, 70, 98, 60, 90, 40.

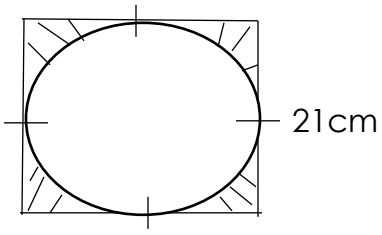
(a) How many pupils did the test**?** (1 mark)

(b) Find the median mark. (2 marks)

(c) Find the modal frequency.

(2 marks)

28. Work out the area of the shaded part. (4 marks)

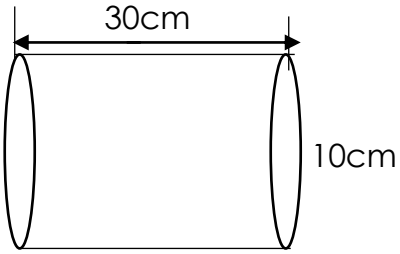


29. The exterior angle of a regular polygon is ¼ of its interior angle.

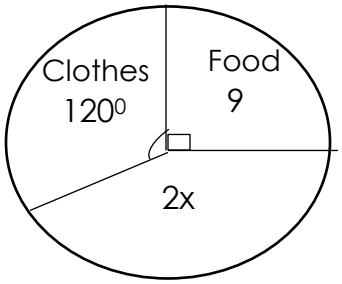
(a) Find the exterior angle.(3 marks)

(b) Find its interior angle sum. (2 marks)

30. The diagram below shows a cylindrical tin opened at one end. Find its total surface area taking pi as $\frac{22}{7}$. (3 marks)



31. The pie chart below shows how Precious spends her monthly salary.



(a) Find the value of x. (3 marks)

(b) If she spends 600,000/= on clothes, find her salary. (3 marks)

32. The bearing of town B from A is 120^0 and town B is 6km. The bearing of town C from B is 160^0 and C is 8km away from C.

(a) Draw a sketch showing the three places. (1 mark)

(b) Draw one accurate diagram. (3 marks)

(c) Find the shortest distance from A to C. (2 marks)

PAPER II

SECTION A

1. Subtract; 1120 – 136.

2. Write 675 in roman numerals.

3. Given that G = {dog, cat, mouse}. How many subsets are in set G**?**

4. Solve for x: $2x + 5 = 13$

5. Kontunu's speed is 120m/s. express it in km/hr.

6. Find the next number in the sequence.

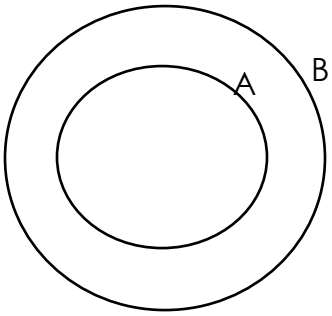
1, 8, 27, 64, 125, _____, _____.

7. Using a ruler and a pair of compasses only, construct an angle of 135^0.

8. The following numbers; 1, 2, 3, 4, 5, 6, 7, 8, 9 were written on small pieces of papers. The pieces of papers were similar in all respects of area of weight. The pieces of paper were then folded well and placed in a basket. If a piece of paper was then fairly picked at random from the plastic basket; find the probability that the piece of paper picked has on a prime number**?**

9. If z = -3, y = 2 and x = 6, find the value of $\frac{zy}{x}$.

10. Shade the intersection.



11. Express 40 as a percentage of 160.

12. If today is Wednesday, how many days was it 96 days ago**?**

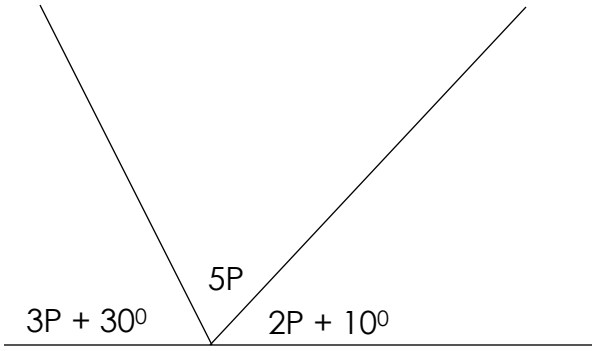
13. Change 124_{six} to binary base.

14. Find the square root of $\left|\frac{13}{36}\right.$

15. An SST lesson started at 10:10am. If it lasted 7200sec. at what time did it end.

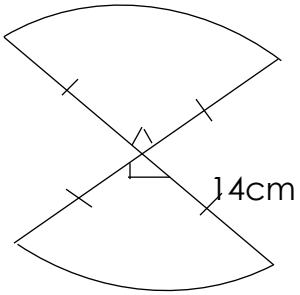
16. I think of a number, add 7 to it and double the result the answer is 40. Find the number.

17. Workout the value of P.

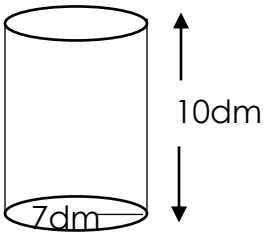


18. Workout using only distributive property: (3 x 40) + (3 x 60)

19. Workout the perimeter.



20. A cylinder can shown in the figure below is 10dm in height. Find its volume if its radius is 7dm.



SECTION B

21. In a class of 100 pupils, 80 like Music (M), 80 like History (H), 5 like neither.

(a) Represent the above information on a Venn diagram.

(b) How many pupils like;

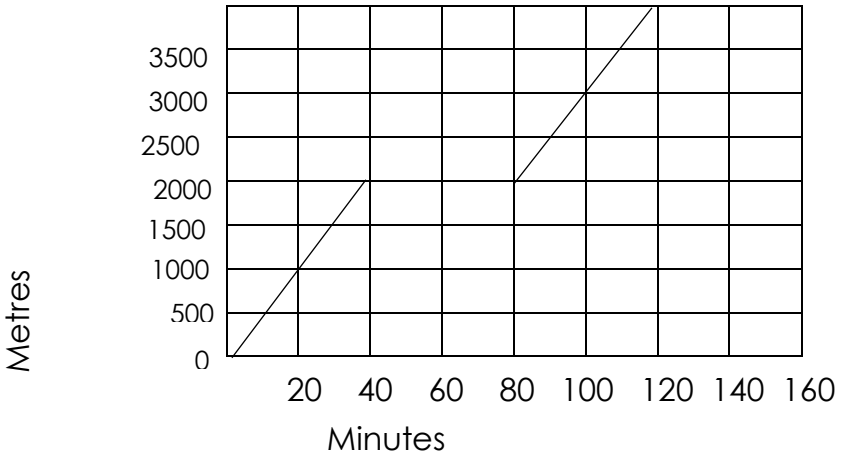
(i) Music and History.

(ii) Music only**?**

(c) Find the probability of a teacher picking a child as a class prefect who enjoys History only.

22. Mugabo borrowed shs. 450,000 from the bank and promised to pay at an interest rate of 8% per annum for 2 years. Calculate the amount he paid back.

23. The graph below shows the distance covered by a bicycle on a Monday morning by Kapere, a pupil, riding from his home to school.



(a) How long did he rest.

(b) Find his average speed while traveling.

(c) Find his average speed for the whole journey.

24. Mukene went to the shop and bought the following items.

3 packets of biscuits at 1,500 per packet.

1.5kg of meat at 10,000/= per kg.

450ml of cooking oil per litre sh. 1,000.

½kg of sugar at shs. 5,000.

If he was given 20,000/= notes, find his balance.

25. Workout the following;

(i) $\frac{0.72\ x\ 0.27}{0.06\ x\ 0.3}$

(ii) 64 ÷ 4 – 8 x 2

26. Construct a hexagon with sides 4cm and the interior angle is 108.

27. In a class, Teddy scored 40%, Tom scored 20%, Tendo scored 30% and Paul scored 10%. Represent it on a pie chart. With the radius 3.8cm.

28. Given that $y = x - 1$, copy and complete the table below, then plot the points on a grid and join them.

x	-3	-2	-1	0				
y					1	2	3	4

29. The rainfall pattern for 6 months was recorded as follows;

Months	Ja	Feb	Mar	Ap	May	Ju
Rainfall (mm)	1.2	1.6	3.8	4.3	5.8	3.4

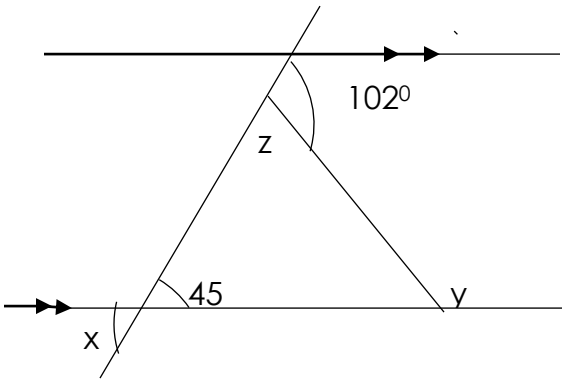
Find the minimum rainfall in six months.

Find the maximum rainfall in 6 months

Calculate the range

30. By selling a cloth at 180,000/=. A boy realized a loss of 20%. The cost for the same computer

31.



Find the value of;

(i) x

(ii) y

(iii) z

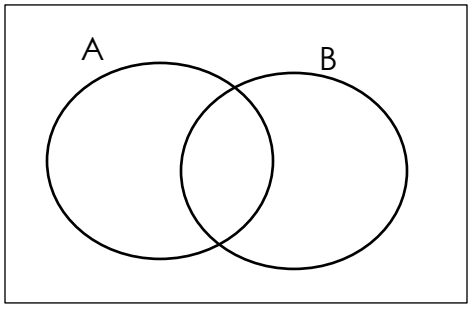
32. Town x is 40km east of Y and town K is 60km South of Y. Given that 10km → 1cm, draw an accurate diagram showing the three towns.

PAPER III

SECTION A (40 MARKS)

1. Add:
$$\begin{array}{r} 242 \\ +\ 86 \\ \hline \\ \hline \end{array}$$

2. Shade the region which represents (AnB)'



3. Change 8,640 to Roman numerals.

4. Add: 15_{six} to 542_{six}

5. Subtract 8a + 6d from 14d – 3a.

6. Simplify: $2\frac{2}{20} - \frac{4}{5} + \frac{2}{3}$

7. Find the square root of 196.

8. Oloya deposited sh. 72,000 in Stanbic Bank which offers an interest rate of $2\frac{2}{3}\%$ p.a. Calculate the simple interest he will be given after 8 years.

9. Decrease sh. 10,800 in ratio 3:5

10. Write the solution of b in
$14 > 2b > 8$.

11. Find the complement of $(2y + 15)^0$

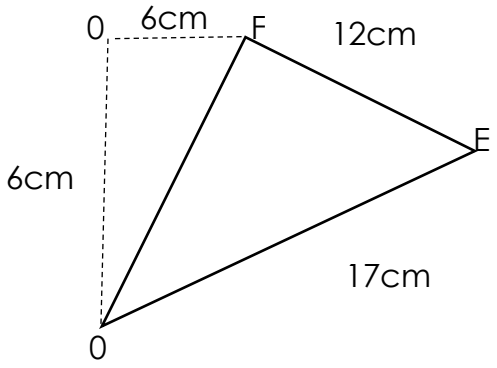
12. Workout: $2^y \div 2^3 = 2^{10}$.

13. Two bells ring at intervals of 40min to 30min. If they first rang at 10:30am, what time will they ring again**?**

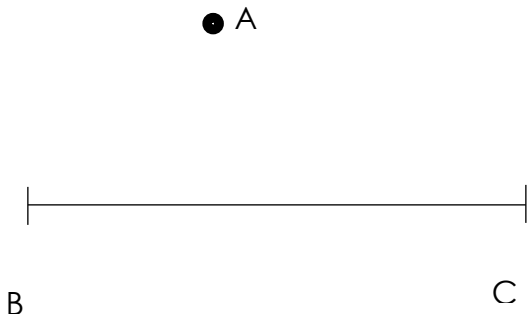
14. Change 0.333… to a common fraction in its lowest terms.

15. Round of 19.987 to the nearest tenths.

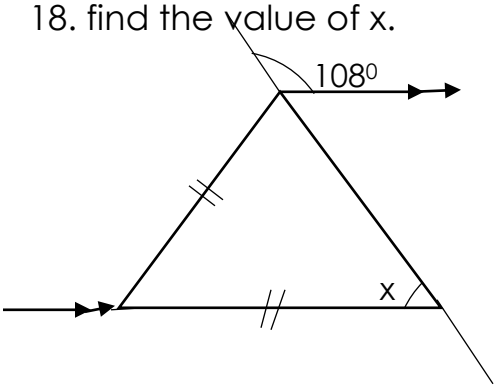
16. Workout the area of triangle DEF.



17. Using a ruler, a pencil and a pair of compasses, draw a perpendicular from point A to meet line BC below.

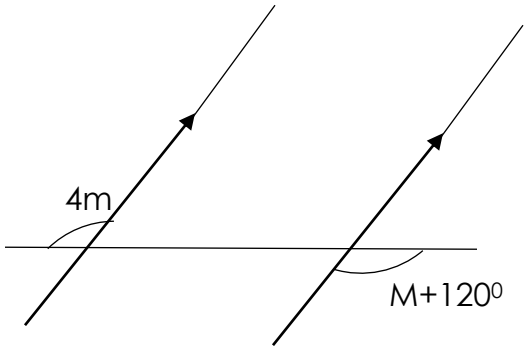


18. find the value of x.



19. In a class of 40 pupils, 30 are girls. Express the number of boys as a percentage of the class.

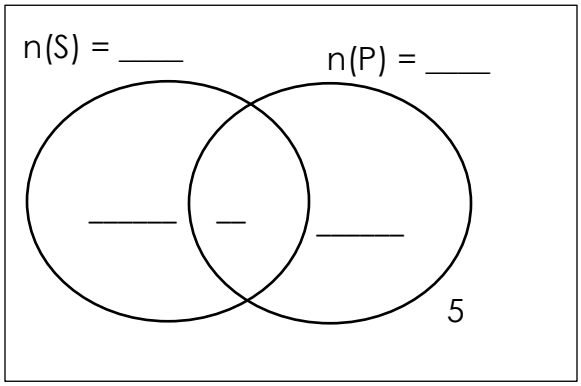
20. Find the value of m in degrees.



SECTION B (60 MARKS)

21. In a class, 24 pupils drink Pepsi (P), (n + 2) drink both Pepsi and Sprite (S), 2n + 1 drink Pepsi only, 21 drink Sprite only while 5 drink neither of the two.

(a) Complete the venn diagram below. (2 marks)



(b) Find the value of n (2 marks)

(c) How many pupils drink Sprite**?**
(1 mark)

22. If today is Wednesday, which day of the week;
(a) Wil it be 64 days from today.
(2 marks)

(b) Was it 32 days ago**?** (2 marks)

23(a) If x = 3 and z = -2, find the value of $\frac{-3+3x}{z}$ (2 marks)

(b) Solve: $3(a - 4) - 12(a + 2) = 54$

(3 marks)

24. Betty drove from Kampala to Jinja at a speed of 60kph for 3 hrs.

(a) How far is Kampala from Jinja**?**

(2 marks)

(b) If she returned at a steady speed of 90kph, how long did she drive**?**

(2 marks)

(c) Calculate her average speed for the whole journey. 2 marks)

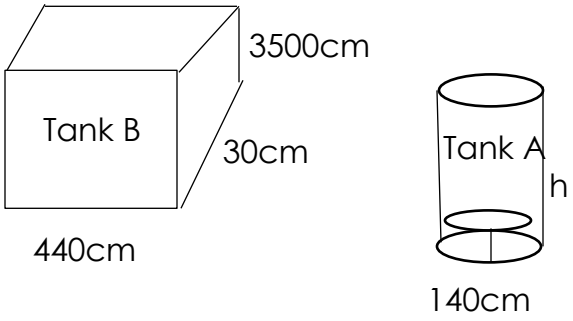
25. The interior angle of a regular polygon is 60^0 more than its exterior angle.

(a) Find its number of sides. (3 marks)

(b) Find the interior angle sum.
(2 marks)

26. If two tanks had the same amount of water when filled. It means they have the same volume.

(a) Find the height of tank A to King Pias $3\frac{1}{7}$ (3 marks)



27. Town A is 4km away from town B on a bearing of 240^0 and town A is 6.5km west of town P. Using a scale of 1cm to represent 1km;

(a) Draw a sketch showing the 3 towns. (1 mark)

(b) Draw its accurate diagram.
(5 marks)

(c) Find the shortest distance from P to B. (2 marks)

28. The average of 3x, 7 and 8 is 8.

(a) Find the value of x. (2 marks)

(b) Find the range. (1 mark)

(c) Find the median (2 marks)

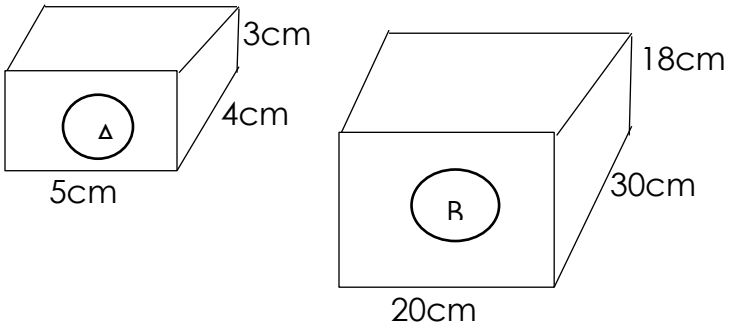
29. Solve;

(a) $22(x - 2) - 3(x + 3) = -22$

(3 marks)

(b) $2x - 4 \leq 24$ (2 marks)

30. Small boxes of type A were packed in carton B

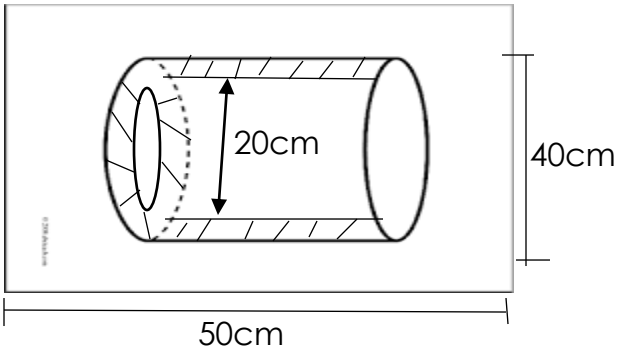


(a) How many boxes are in the carton**?** (2 marks)

(b) Find the volume of the carton. (2 marks)

(c) Find the volume of the small boxes. (2 marks)

31 Below is a metallic pipe.



Taking P1 as 3.14

(a) Calculate the volume of the inner cylinder. (2 marks)

(b) Workout the volume of the outer cylinder. (2 marks)

(c) Calculate the volume of thickness (1 mark)

32. Construct an angle of;

(a) 135^0 (2 marks)

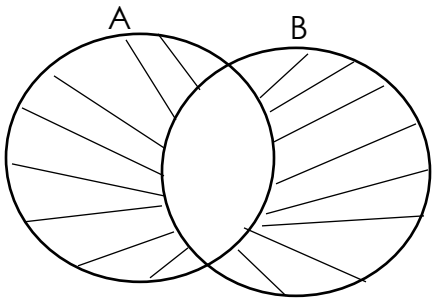
(b) 75^0 (2 marks)

PAPER IV

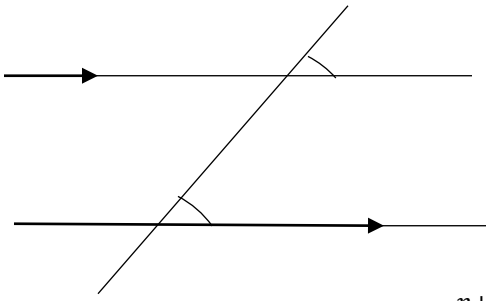
SECTION A

1. Add: 64 + 36

2. Name the shaded region below.



3. Find the value of x in;



4. If n = 5 and p = -7. Find $\frac{n+p}{2}$

5. Write 56.29 in standard form.

6. Construct an angle of 120^0 and bisect it.

7. Workout 5 + 2 = _____ (mod 7)

8. Find the missing numbers in the sequence below;

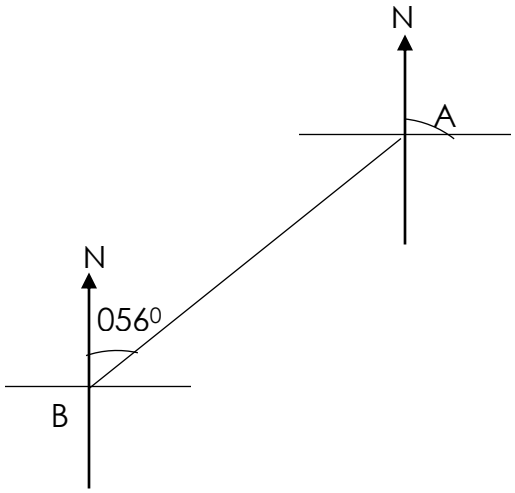
1, 4, 9, 16, 25, 36, 49, _____.

9. Simplify 3e + 5c – 2e + 8c

10. Express DCCCVIII in Hundi Arabic.

11. How many lines of folding symmetry does a kit have**?**

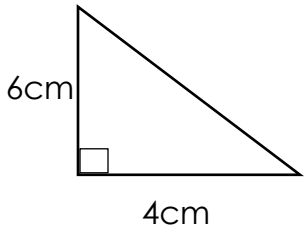
12. What is the direction of A from B**?**



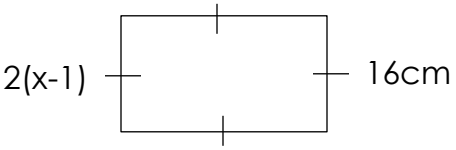
13. Solve: $2x - 2 = 8$

14. Find the missing base in $23_x = 13_{ten}$

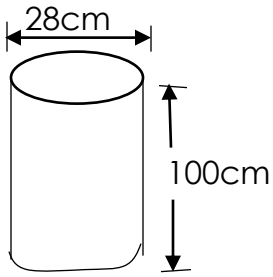
15. Find the area of;



16. Find the value of x.



17. Find the volume of the cylinder.



18. The LCM of two numbers is 48 and their G.C.F is 4. If one of the numbers is 16, find the second number.

19. Express 49 in Roman numerals.

20. Express ¼ as a decimal.

SECTION B

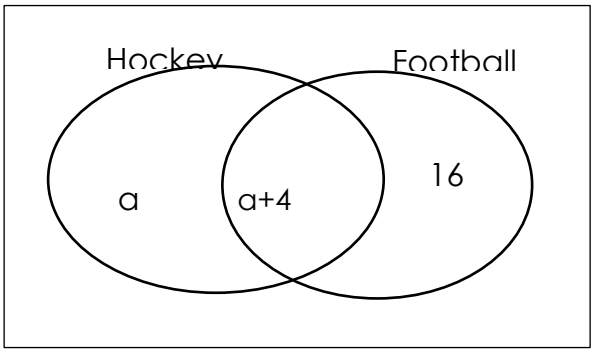
21. With the help of a sharp pencil, ruler and pair of compasses, construct a triangle PQR where angle PQR = 45^0, angle QPR = 60^0 and line PQ = 5cm. Drop a perpendicular line from point R to meet line PQ at point O.

Measure;

(i) Line RO

(ii) Angle PRO

22. On the diagram below, 24 pupils play Hockey (H)



(a) Find the value of a

(b) How many pupils play one game**?**

23. Peter went to capital shoppers supermarket and bought the following:

2 tubes of tooth paste at sh. 8,000.

A pair of shoes at sh. 100,000.

5 plastic soda bottles at sh. 2,000 each.

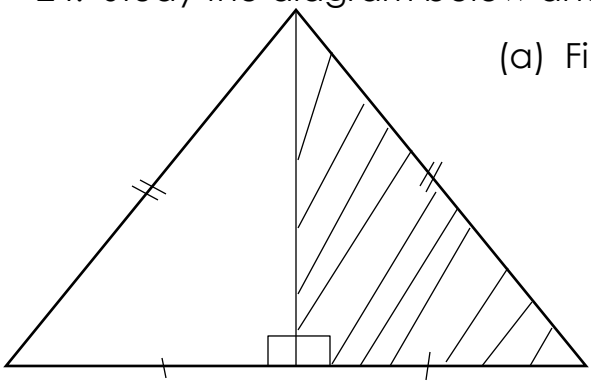
3 basins at sh. 4,500 each.

(a) How much did he spend on all the items**?**

(b) If he went with three fifty thousand notes, calculate change after shopping.

(c) Assuming he was given a discount of 10% after shopping, calculate the actual amount of money he would pay.

24. Study the diagram below and answer the questions.



(a) Find the value of y

(b) Calculate the area.

(c) A dog moved round the entire triangle three times, what distance did it cover**?**

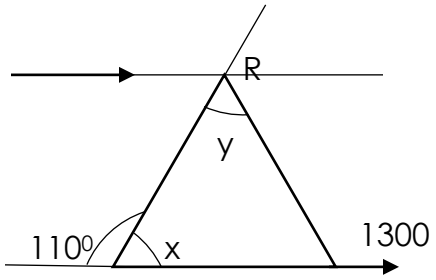
25(a) Solve: $\frac{(x-2)}{2} = \left(\frac{x+3}{3}\right)$

(b) Frank is twelve years older than Mark. In 8 years' time, their total age will be 48 years.

(i) How old is Frank now**?**

(ii) How old will Mark be in fifteen years.

26. Study the diagram below and answer the questions.



Find the value of;

(i) x

(ii) y

(iii) z

27. In a group of customers that entered Naku's restaurant, $\frac{3}{8}$ ordered for rice, $\frac{1}{5}$ of the remainder ordered for matooke while twenty ordered for posho.

(a) What fraction of the customers ordered for;

(i) Matooke

(b) How many customers in total entered Naku's restaurant.

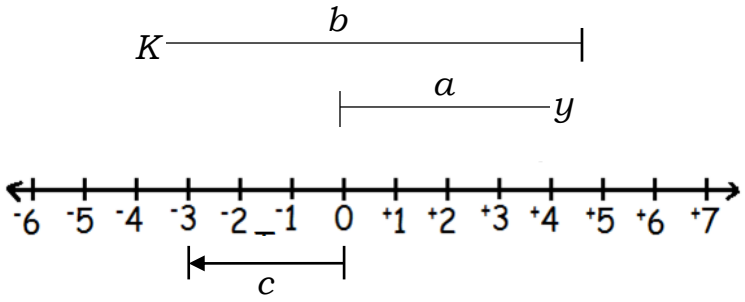
28(a) 10 men can finish a piece of work in 2 days. How many days will 4 men take to finish the same piece of work**?**

b) How many more days will the 4 men take to finish the same work**?**

28(a) There are 60 pupils in P. 7 Bright. $\frac{2}{3}$ of them are girls. How many boys are in the class**?**

(b) How many more girls are in the class**?**

30. Study the number line below carefully.



(a) Identify the integers

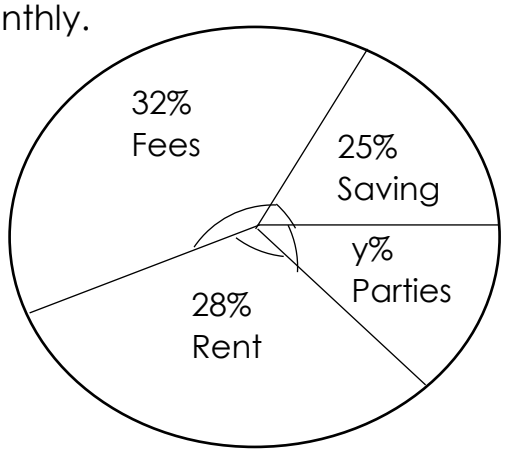
a _____

b _____

c _____

(b) Write a mathematical statement.

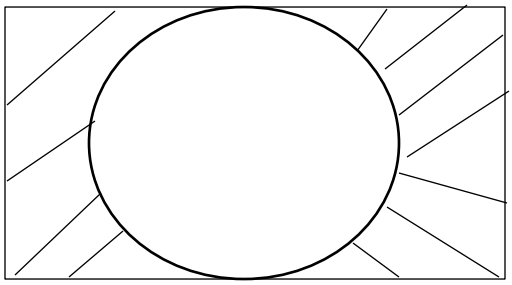
31. The pie chart below shows how Mr. Lubanga spent his money monthly.



(a) Express the sector of parties in degrees.

(b) If he spent 560,000/= on rent, workout his total income.

32. The figure below is a rectangle with a circle in it. Find the area of shaded part.



PAPER V

SECTION A

1. Add: 3 + 3

2. Arrange in ascending order;

   0.7070, 0.0707, 7.700, 7.010

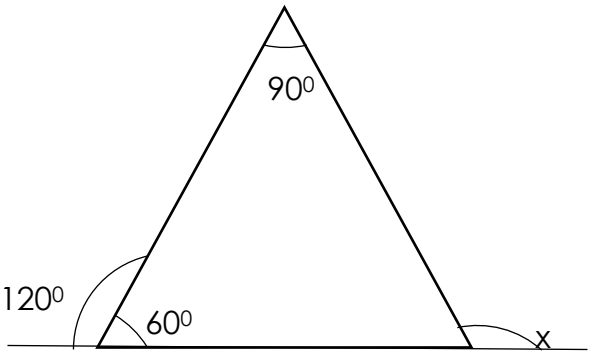
3. Simplify;

   0.025 x 100 + 10 x 2.5

4. Find the next number in the sequence;

   1, 3, 7, 13, 21, _____

5. Find the size of angle x.

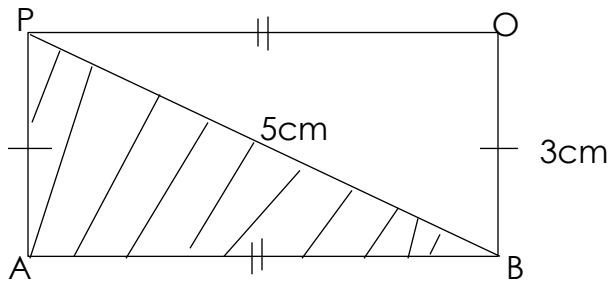


6. The circumference of a tractor tyre is 484cm. Find radius.

7. If m = 3 and y = -2. Workout;

$$\frac{2(ym)+2}{(n-y)-6}$$

8. Calculate the area of the shaded part.



9. Using a pair of compasses, construct 75^0.

10. Write 198 in Roman numerals.

11. Solve the equation. $2(x - 3) + 3(3x - 1) = 13$

12. Solve;

$$\frac{20}{n} + 4 = 44$$

13. Simplify;

    $3p - 3q + 2p + 2q$

14. Workout;

    $1\ 1\ 1_{two}$

    $+\ 1\ 1_{two}$

15. What is 10% of 30 eggs**?**

16. Express the ratio of 2:9 as a percentage.

17. Workout:$4\frac{1}{4} - 2\frac{1}{2}$

18. Kalya bought 6½kg of sugar. If she gave her mother 4¾kg, how many kg did she remain with**?**

19. Add: $\frac{7}{20} + \frac{3}{4}$

20. Subtract; $1\frac{1}{3} - \frac{3}{4}$

SECTION B

21. All the 60 pupils in a class like Science, 35 like Math, 40 like English, y liked all the three while 2 like Science only.

(a) Represent on a Venn diagram.

(b) Find the value of y.

22. In a class of 40 pupils, 24 are girls and the rest are boys.

(a) Find the ratio of girls to boys.

(b) What is the ratio of boys to girls**?**

23. Max spends her pocket money as follows; $\frac{1}{3}$ on buying sweets, ¼ of the remainder on buying juice and the rest for transport. If she spends 5,000/= on juice;

(a) How much is her pocket money**?**

(b) How much does she use on transport**?**

24. Two taps; A and B are joined to a tank. Tap A takes 3 minutes to fill the tank when turned on alone and tap B takes 6 minutes to fill the tank when turned on alone. What fraction of the tank will be filled by**?**

(a) Tap A in one minute.

(b) Tab B in one minute.

(c) How long will the two taps take to fill the tank**?**

25. Mark travelled from Kampala to Namutumba at a speed of 80kph for 2½ hrs. After 15 minutes rest, he returned to Kampala in 2¼ hrs.

Find the average speed for the whole journey.

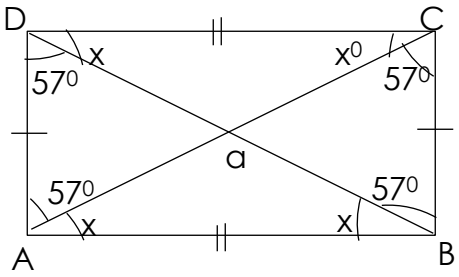
26. 10 men can build a wall in 6 days.

(a) How many days will two men take to do the same work**?**

(b) How many more men are needed to do the same piece of work in 3 days**?**

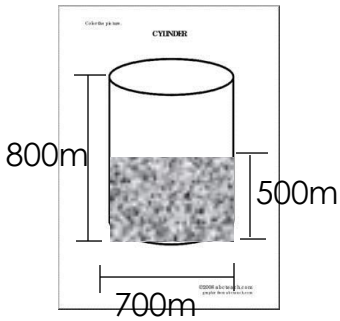
27. The figure below is a rectangle ABCD. The diagonals DB and AC intersect at O and angle DAC = 57^0, angle DCO = X^0.

(a) Find the value of x.



(b) Find the size of AOB.

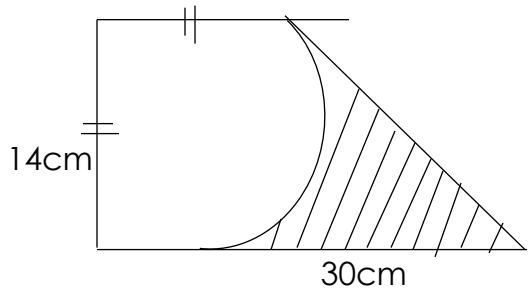
28. The cylindrical tin below holds water up to the level of 50cm.



(a) How many litres of water are in the tin**?**

(b) How many litres of water should be added in the water to make it full**?**

29. Find the area of the shaded part.



30. Agness is 20 years younger than Claire. In 15 years, their total age will be 60 years. How old is each of them**?**

31. In a school of 400 pupils, 60% of them are girls, $\frac{2}{5}$ of the girls are in lower primary and 30% of the boys are in upper primary. How many pupils are in upper primary**?**

32. Given that y = x + 1, complete the table.

X	-2		0		2
y		0		2	

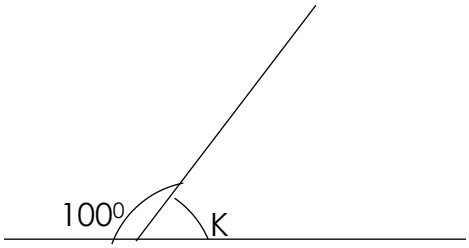
PAPER VI

SECTION A

Workout; 3

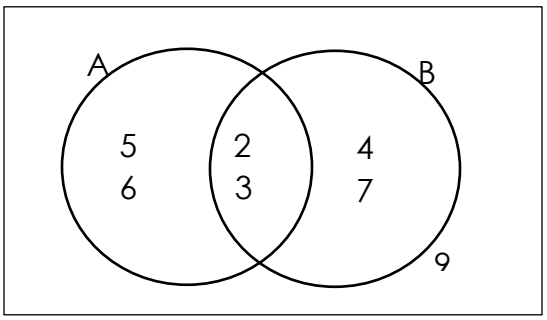
x 0

2. In the diagram below fin the value of K.



3. Convert 14_{five} to base ten.

4. Find n(AuB) using the Venn diagram below.



5. Express 2:3 as a proper fraction.

6. Simplify; $^{-}4 - {}^{-}7$.

7. Find the next number in the sequence.

   3, 7, 11, 15, _____.

8. Convert 7km to metres.

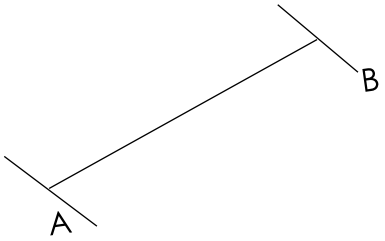
9. Given that a = 4, b = 6 and c = 5, find the value of $\frac{a+b}{c}$

10. Each of the twins had forty five books. How many books did they have altogether**?**

11. Express 1840 hours to 12 hours clock system.

12. Kato is twice the age of Nambi. If the difference in their age is 10, how old is Kato**?**

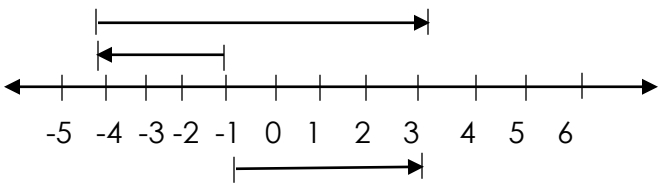
13. With the help of a ruler, pair of compasses and a pencil, construct a perpendicular bisector of line AB below.



14. A housewife bought 6kg 200gm of sugar on Monday and 4kg 600gm on Tuesday. How much sugar did she buy altogether on the two days**?**

15. The addition mathematical statement below is

-3 + _____ = _____



16. A = {0, 2, 4} and B = {0, 1, 2, 3, 4, 5, 6}

Find A – B

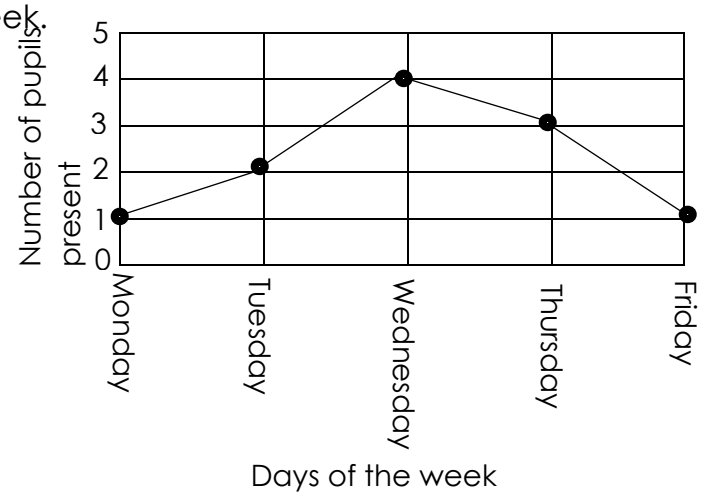
17. Given the figure 793 complete the table below

Digit	Place value	Value
9	_____	_____

18. Lunyolo withdrew 27,000/=. If she was given denomination of 1,000/= only, how many notes was she given**?**

19. Simplify; $\frac{2}{3} - \frac{1}{6} \, x \, \frac{1}{6}$

20. The graph below shows the number of pupils who were absent from school in a week.



Find the total number of pupils absent the whole week.

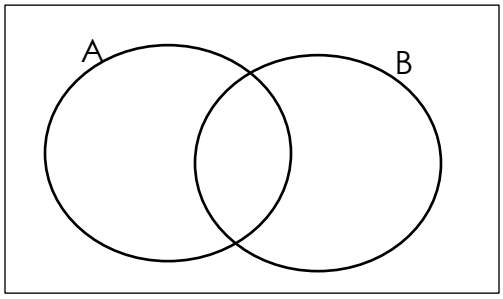
SECTION B (60 Marks)

21(a) Workout 704 x 7

(b) In a football league, a team played 38 matches. It lost 7 matches, drew 10 matches and won the rest. Given that 3 points are awarded for a match won, I point for a match drawn and no point for a match lost. How many pupils did the team get in the 38 matches**?**

22. Given that n(A) = 12, n(B) = 20, n(AUB) = 25 and n(AnB) = x;

(a) Represent the information on a Venn diagram.



(b) Find the value of x.

(c) Find n(A – B)

23. In a clinic, 7 children had the following masses; 2kg, 19kg, 8kg, 5kg, 9kg, 8kg, 12kg. Find the;

(i) Modal mass

(ii) Median mass

(iii) Mean mass

(b) How many children had their masses below the mean mass**?**

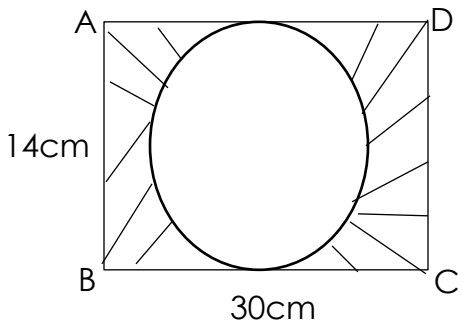
24(a) The sum of the three consecutive even numbers is 24. Find the actual numbers if the smallest is x.

(b) Find their range.

25(a) Three girls Jane, Suzan and Mary shared sweets in the ratio of 2:5:3 respectively. If Mary got 12 sweets, how many sweets di they share altogether**?**

(b) How many sweets did Jane get than Suzan**?**

26.



(a) Find the area of the rectangle ABCD.

(b) Taking π as $\frac{22}{7}$, find the area of the unshaded portion.

27(a) Solve $3(a + 2) + (2a - 1) = 29$

(b) Find the solution set for;

$2y + 3 < 9$

28(a) Kabuye left place A from place B 60km apart on a bearing of 110^0. He then headed to place C 55km away on a bearing of 070^0. Draw a sketch showing the above places.

(b) Using the scale of 1cm to represent 10km, draw an accurate diagram showing the above places.

(c) From the accurate diagram, find the true bearing of place A from place B.

29(a) A bus moved at a speed of 80km/hr for 2 hours from Kampala to Masaka. It then moved at a speed of 60km/hr for 3 hours from Masaka to Mbarara. Find the distance between Kampala and Masaka.

(b) Find its average speed for the whole journey.

30. Benita had a 10,000/= shilling note. She went to the market and bought the following items;

6 mangoes at 500/= for 3 mangoes

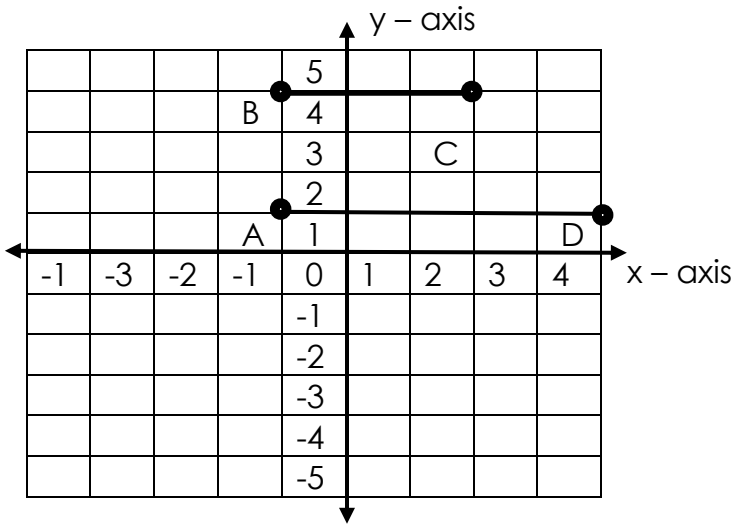
1 sugarcane at 500/=

2 loaves of bread at 3,300/= each

3 cakes at 300/= each

Find the change she received.

31. Study the graph below and answer the questions that follow.



(a) Name the co-ordinates of point

(i) A

(ii) B

(iii) C

(b) Join A to B, B to C, C to D and D to A. Name the figure formed.

(c) Find the area of the figure formed.

32(a) Work out; $\frac{0.12\ x\ 0.8}{0.4}$

(b) $\frac{2}{3}$ of a number is 20. Find $\frac{2}{5}$ of the same number.

PAPER 7

SECTION A

1. Subtract: 8 9
   - 5 0

2. Given that a = {a, b, c, d, e, f). Find n(a)

3. Find the numbers in the sequence.
1, 8, 27, 64, _____.

4. Solve: $\frac{2x}{4} = 6$

5. Workout: -10 – 2

6. Find the least number when divided by 5, 6 and 12 leaves two as a remainder.

7. Find the circumference of a circle whose diameter is 7hm. $\left(\pi = 3\frac{1}{7}\right)$

8. Anita bought 5 pens at 5,000/=. How much could she pay for 20 pens**?**

9. Express 0.3636……. as a common fraction.

10. Find the sum of the place of 4 and the value of 6 in 45260.

11. Construct 150^0.

12. By selling a ball at 5,000/=, Musa got a loss of 2,000/=. Find percentage loss.

13. Solve; $4x + 5 = 25$.

14. Find the mean of y; 3y + 3 and 5.

15. Express; 0.0028 in standard form.

16. Express 1111_{two} into decimal system.

17. A 50 minute lesson ended at 4:30pm. At what time did it start**?**

18. A man sang a song in 15 minutes. How long will it take for 20 men to sing the same song**?**

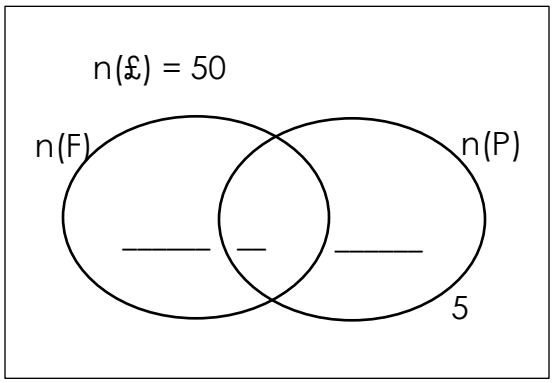
19. Calculate the length of each side of the rhombus whose diagonals are 16cm and 12cm.

20. Workout: $\frac{1}{2} + \frac{2}{4} \div \frac{6}{8}$

SECTION B

21. In a group of 50 pupils, 30 pupils like Fifa and 20 pupils like Pess. If m people like both and 5 pupils like one.

(a) Draw a vann diagram and represent the information.



(b) Find the value of m.

(c) Find the number of pupils who like only one subject.

22(a) Solve: $\frac{0.6\ x\ 0.4}{0.8\ x\ 0.32}$

(b) Change 452 in Roman Numerals.

(c) Solve and find the solution set for $3 \leq 2y - 1 \leq 7$

23(a) If a = 5, b = 10, c = 3. Find: $\frac{a+b}{c}$

(b) Calculate the simple interest in 480,000/= deposited in a bank at a rate of 25% p.a. for 6 months.

24. The interior angle of a regular polygon is 30^0 more than the exterior angle.
(a) Find the interior angle.

(b) Find the number of sides.

(c) Find the interior angel sum.

25(a) Solve equations;

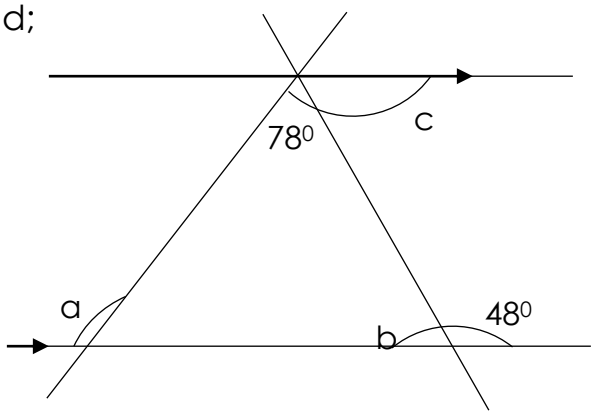
$\frac{4x+1}{3} = \frac{x+4}{2}$

(b) 5x – (2 + 2x) = 8.

(c) Write a solution set for:

$-4 < x \leq +4$

26.Find;



(i) a

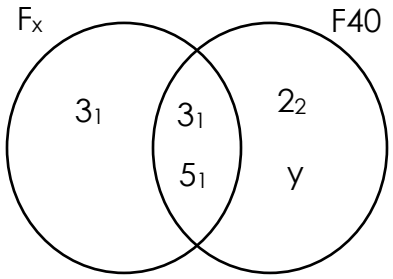
(ii) b

(iii) c

27(a) Find the supplement of $(x - 20^0)$

(b) Find the 50^{th} triangular number.

28. The diagram below shows the prime factors of x and 40. Study it and answer questions.



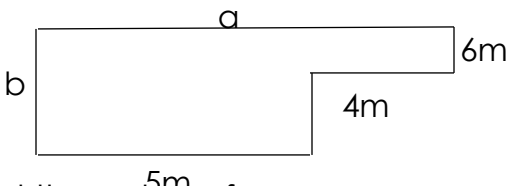
(a) Find the value of;

(i) x

(ii) y

(b) Find H.C.F.

29. Study the venn diagram below.



Find the value of;

(i) a

(ii) b

30. John, Grace and Peter shared some money in the ratio of 2:3:5. If Peter got shs. 20,000;

(a) How much did they get altogether**?**

(b) Find how much Grace got.

31. Teko went to smart shoppers supermarket and bought the following;
2½kg of sugar of shs. 3,000 per kg.
500g of salt at shs. 1,000 per kg.
2 cakes at shs. 500 each.
8 sweets at shs. 3,200/=.
Find the total bill.

32. Using a pair of compasses, a ruler and a pencil, construct a triangle PQR, where PQ = 6cm, $\angle RPQ = 60^0$ and $\angle PQR = 45^0$.

PAPER 8

SECTION A

1. Multiply;
$$\begin{array}{r} 4 \\ \times\ 2 \\ \hline \end{array}$$

2. Solve: $m - 3 = 8$

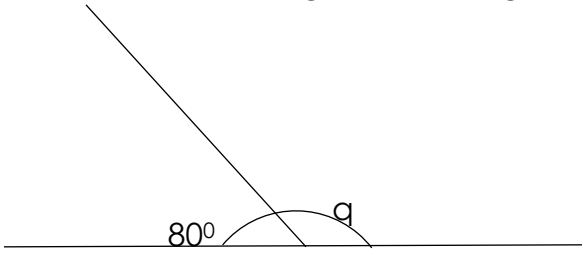
3. Write 49 in Roman numerals.

4. Write the number; 59,006 in words.

5. Subtract:
$$\begin{array}{r} 450 \\ -\ 145 \\ \hline \\ \end{array}$$

6. If a = 2, b = 3 and c = 5, find the value of 3a + b + c.

7. Find the value of angle q in the figure below.

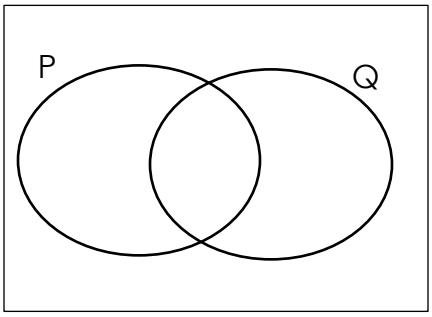


8. Find the next number in the following;
17, 12, 8, 5, 3, _____.

9. Find the complement of an angle of 50^0.

10. A bus carries 60 passengers in a trip. How many passengers will it carry in 4 trips**?**

11. In the diagram below, shad (PuQ).



12. Simplify; $\frac{7}{8} + \frac{3}{8} - \frac{1}{4}$

13. Write 7½% as a simple reduced fraction.

14. Solve and find the solution set

a + 5 > 2

15. A cyclist drover a distance of 6km in 20mins. Calculate his speed in km/hr.

16. Find the value of k if $3 - 5 = k \pmod 6$

17. There are 30 eggs in one tray. How many trays will be required to pack 330 eggs**?**

18. Workout: $111_{two} - 10_{two}$.

19. Change 400cm to metres.

20. Ten men take 12 days to dig a piece of land. How many men will dig in 8 days**?**

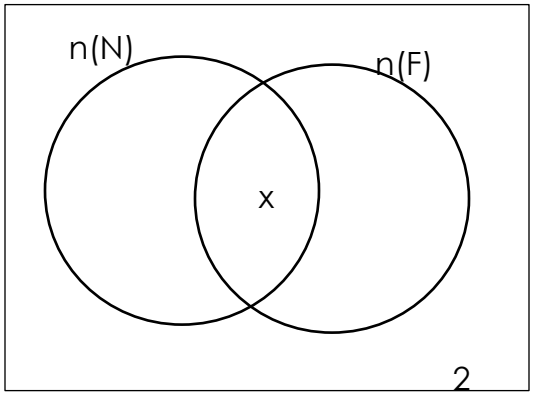
SECTION B

21(a) Simplify; $\frac{2.7\ x\ 4.8}{2.4\ x\ 3.6}$

(b) $\frac{2m}{5} = 4$

22. In a class of 30 pupils, 20 play netball (n), 15 play football (f) and x play both games while 2 play neither of the two.

(a) Use the above information to complete the Venn diagram below.



(b) Find the value of x.

(c) Find the number of pupils who play only one game.

23. The interior angle of a regular polygon is 100^0 more than its exterior angle.
(i) Find the value of its exterior angle.

(ii) How many sides does the polygon have**?**

24(a) What number has been expanded below; $(5x10^2) + (4x10^1) + (2x10^{-2})$

(b) The LCM of two numbers is 120 and the GCF is 20. If one of the numbers is 40, find the other number.

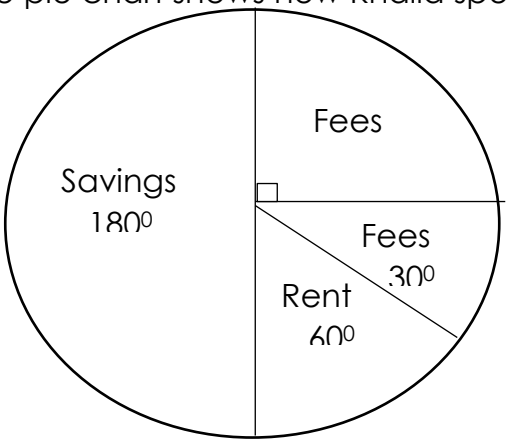
25. A lady borrowed 900,000/= at an interest rate of 30% per annum for 9 months.
(i) How much interest did she get back**?**

(ii) How much money did she pay altogether after 9 months**?**

26. Calvin, Omuan and Cole shared some money in the ratio 2:3:5 respectively. If Omuan got 800/=, how much money was shared**?**

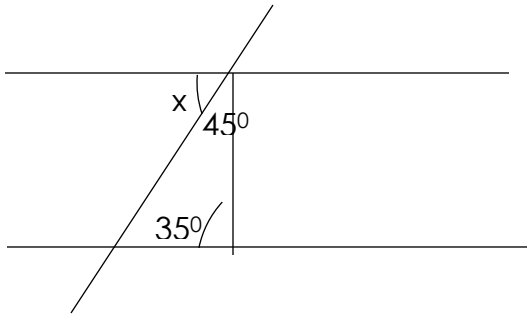
27. The pie chart shows how Khalid spends his salary of shs. 720,000

(a) How much does he save**?**



(b) How much more does he spend on fees than rent.

28. Find the value of x in degrees.



29. Kamugu went to the supermarket and bought the following;
3kg of sugar at 4,000/= per kg.
1½ of oil at 2,000/= per litre.
500g of rice at 3,000/= per kg
4 bars of soap at 1,000/= per bar.
How much money did he spend**?**

30. Find the missing digits in the magic square below.

3	d	6
c	8	9
5	6	2

31. The table below shows mark scored by pupils in an exam.

Mark	10	30	40	50
No. of pupils	2	3	5	1

(a) How many pupils did the exam**?**

(b) How many pupils scored the least mark**?**

(c) How many pupils scored the highest mark**?**

(c) Find the average mark scored.

32. Construct a triangle ABC where line AB = 5cm, B = 30^0, C = $\angle 45^0$.
Measure BC in cm.

PAPER 9

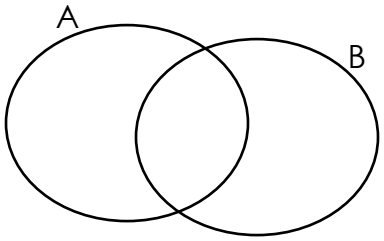
SECTION A

1. Workout:

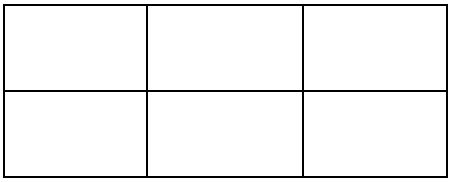
$$\begin{array}{r} 5\ 4 \\ \times\ 9 \\ \hline \\ \hline \end{array}$$

2. Simplify: 9x – 3a + 2x + 14a

3. Shade (A – B)'



4. Shade $\frac{2}{3}$ of the figure.



5. Write MXLVIII IN Hindu Arabic numerals.

6. Express 20 as a percentage of 600.

7. Solve: $3x + 6 = 9 + 3$

8. Divide 6363 by 7

9. Workout:

$$\begin{array}{r} 4\,1\,2_{five} \\ -\ 1\,3_{five} \\ \hline \end{array}$$

10. Construct 105^0 using a pair of compasses, pencil and a ruler.

11. Write 0.08 as a fraction in its simplest form.

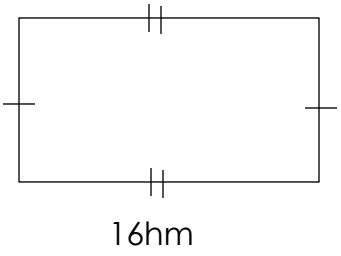
12. Find the median of the following numbers: 3, 0, 5, 4, 2

13. Change 2.5m to millimetres

14. If a = 4, y = 6 and g = 0, find the value of a^2yg

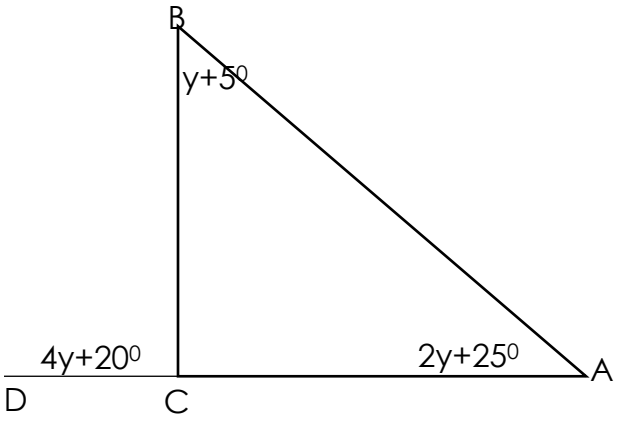
15. Workout: $t^6 \times t^2$

16. Study the figure below and find its diagonal.



17. Draw a well labelled number line and show $^{+}4 + {}^{-}6 = {}^{-}2$

18. Find the value of y



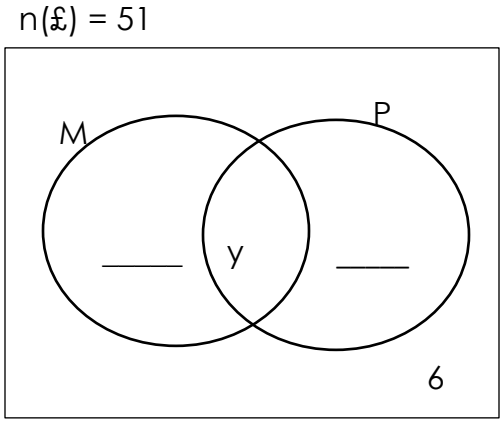
19. Peter is to plant poles in a straight line a distance of 600m. If the distance from one place to another is 6m, how many poles will be used**?**

20. Solve: $2(3x - 6) = 24$

SECTION B

21. In a class party of 51 pupils, 28 drank Mirinda, 29 drank Pepsi, y drank both Mirinda and Pepsi while 6 did not drink any of the two sodas.

(a) Use the information given above to complete the diagram below.



(b) Find the value of y.

(c) Find the number of pupils who drank one type of soda only.

22(a) Expand 549 using powers of base ten.

(b) Find the unknown base in; $23_x = 34_{five}$.

23. Christian, Christo and Cherbolain shared some money in the ratio 3:5:2 respectively. If Christo received 12000/=, how much money did they share altogether**?**

24(a) Workout: $\frac{2}{3} \div \frac{1}{3} + \frac{1}{2} - \frac{2}{3}$

(b) Simplify: $\frac{7.2\ x\ 4.8}{0.6\ x\ 0.012}$

25(a) A watch loses 5 seconds every one hour. How many minutes will it lose in 3 days**?**

(b) Express 6m/s in km/hr

26. The exterior angle of a regular polygon is ½ of its exterior angle.

(a) Find the interior angle.

(b) Find its number of sides.

27. The school bursar withdrew ten thousand shilling notes numbered consecutively from APO487984 to APO488183. How much money did the school bursar withdraw**?**

28. The table below represents marks scored by pupils in an interview.

Marks	30	40	25	35
No. of pupils	1	3	2	4

(i) How many pupils did the interview**?**

(ii) Find the range of marks.

(iii) Calculate the mean score.

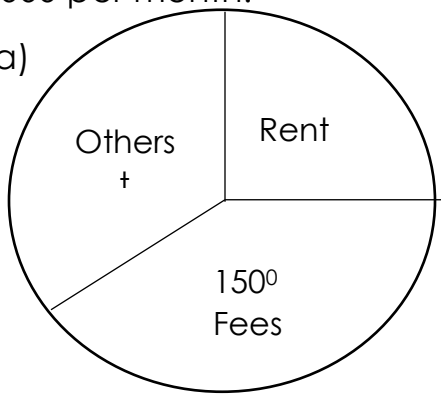
29. The sum of 3 consecutive odd numbers is 99. If the smallest number is y;

(i) Find the value of y.

(ii) Find the actual numbers.

30. The pie chart below shows how Minskips spends his income of sh. 144,000 per month.

(a) Find the value of t in degrees.



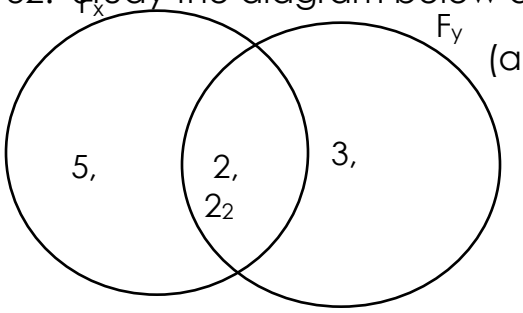
(b) How much money did he spend on others**?**

31. Solve the equations given below.

(i) $5(p + 5) - 4(5 + p) = 6$

(ii) $2^9 \times 2^{a+4} = 2^{13}$

32. Study the diagram below and answer the questions that follow.



(a) Using the venn diagram above, find;

(a) F_x

(b) F_y

(c) G.C.F

(d) L.C.M

PAPER 10

SECTION A

1. Add:

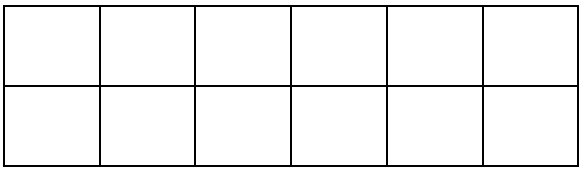
$$\begin{array}{r} 901 \\ +008 \\ \hline \end{array}$$

2. Simplify; $2m - m + 7m$

3. Write in figures; One hundred thousand one.

4. Given that set P = {Prime numbers from 2 to 11}. List down all the numbers of set P.

5. Shad ½ of the diagram.



6. Simplify: $e^4 \times e^2$.

7. Convert 24_{ten} to binary system.

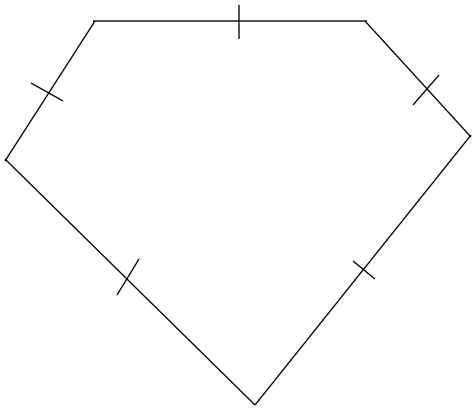
8. Simplify: $3(x + 2) - 2(x + 3)$

9. Today is Friday, what day of the week will it be 25 days from now**?**

10. A 2½ hour lesson started at 7:40am. What time did it end**?**

11. How many ¼ litre bottles can be obtained from 4 litres of milk**?**

12. Find the perimeter of the figure.



13. Divide;

$$\frac{3}{1} \div \frac{1}{2}$$

14. Expand using powers; 125

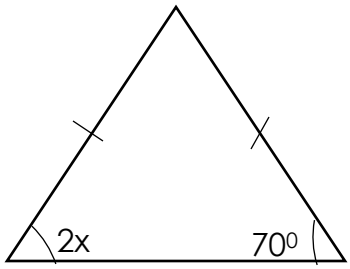
15. Find the unknown base. $101_{w} = 26_{ten}$

16. John had 5,000/= notes numbered from AM440871 to AM49167. How much did he have**?**

17. Use distributive property: (7x40) + (7x28)

18. Change 72km/hr to m/s.

19. Find the value of x.



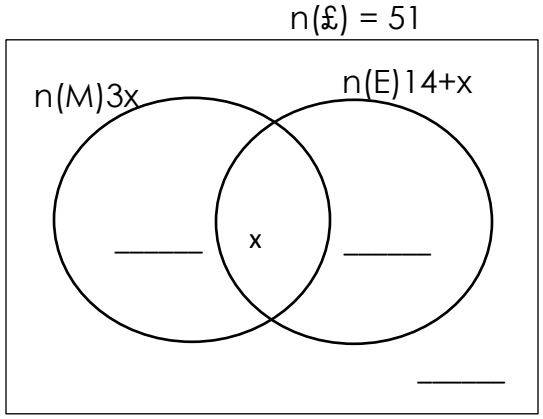
20. Solve for y in;

$3(y+2) - 2(y+2) = -3$

SECTION B

21. In a class of 5 pupils, 3x passes Maths (M), 14 passes English (E) only and 7 – x passed other subjects.

(a) Complete the Venn diagram.

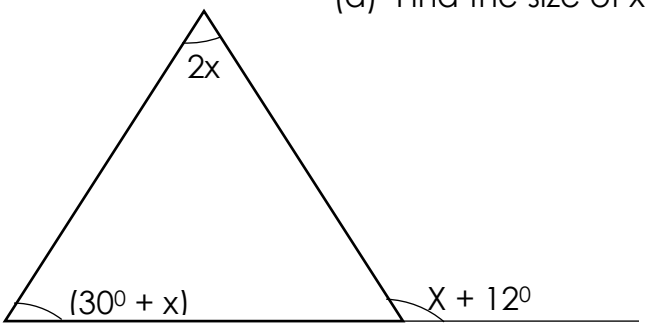


(a) Find the value of x.

(b) Find the number of pupils who passed the same subject.

22. Study the diagram and answer questions that follow.

(a) Find the size of x in degrees.



23. The mean of 2x, x-3 and x is 7. Find the value of x.

24. Simplify; $\frac{0.72\ x\ 0.48}{0.36\ x\ 1.2}$

25. Study the magic square and find the missing values.

11	e	b
a	8	10
c	d	5

(i) a

(ii) b

(iii) c

(iv) d

26. With the help of a sharp pencil, ruler and pair of compasses, construct a tringle MNT where MNT = 120^0, NMT = 30^0, $\overline{MN}$ = 6cm

27. After covering a distance of 21km. Musa realized this represents $\frac{3}{7}$ of his journey. Find the total distance of the whole journey.

28. Answer the questions about Sarah.

Leisure	2hrs
Reading	8hrs
Eating	3hrs
Others	1hr

Represent the above on a pie chart diameter 10cm.

29. A meeting started from 11:20am and ended at 11:40pm. How long was the meeting**?**

30. Ann bought a set at shs. 1,000 and sold it to John at shs. 800. Workout her percentage loss.

31. Medi, Joseph and Peter shared sh. 24,000 in the ratio of 2:7:3.

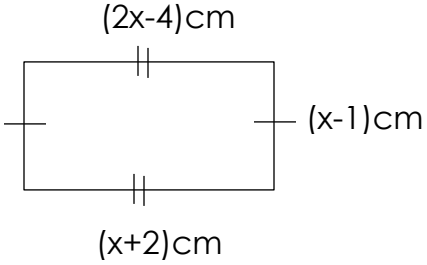
(a) How much did Joseph get**?**

(b) Medi get?

(c) Peter

32. Study the rectangle and answer questions below.

(a) Find the value of x.



(b) Find the length and width.

(c) Calculate the area.

PAPER 11

SECTION A

1. Subtract;

$$\begin{array}{r} 493 \\ -\ \ 4 \\ \hline \end{array}$$

2. Set Z = {a, e, i, o, u}, Set X = {a, c, d, e, u}Find the members in set X only.

3. Find the next number in the sequence.

2, 3, 5, 7, _____.

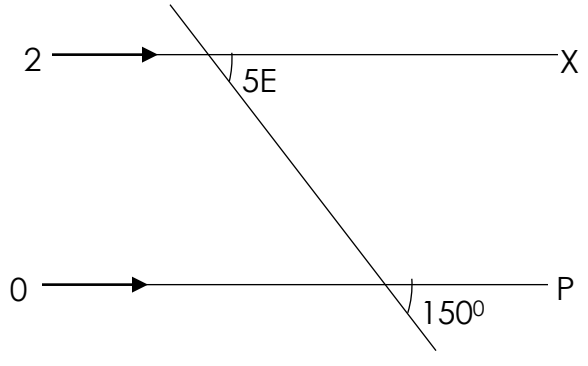
4. John had bought a shirt at 20,000/= and sold it at 15,000/=. Find his percentage loss.

5. Workout: $\frac{1}{2}x^2 = 8$

6. Change 0.727272…… to a rational number.

7. Five pens cost 3,000/=. How much can one pay for 18 similar pens**?**

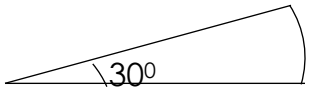
8. In the figure below, 2, X_x is parallel to O, P. Calculate the value of E.



9. With the help of a ruler, compasses only, construct 45^0.

10. Silver spoon has 1,493 children. Express its population to roman numerals.

11. The figure below is a sector. What is the area**?**



12. Write 6.49 in scientific notation.

13. Find the supplement of $(3x - 60^0)$

14. Divide 818181 by 9.

15. Find the number expanded. $(3x10^0) + (4x10^3) + (5x10^1) + (6x10^2)$

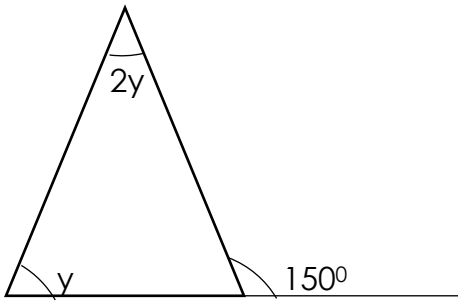
16. Five poles were placed in the field. How many gaps were left between the poles**?**

17. Write XCIX using Hindu Arabic.

18. Solve; $10^7 \div 10^4$

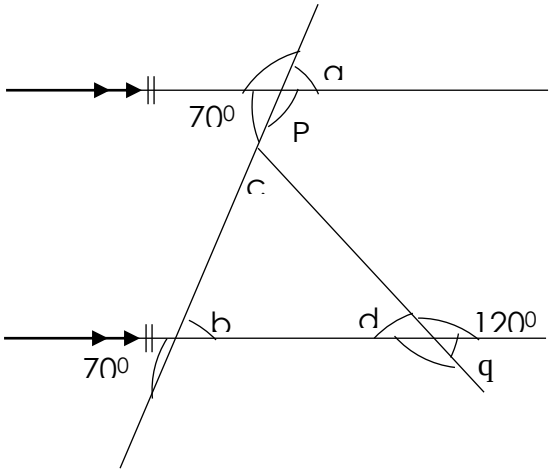
19. Express 120y as a percentage of 20kg.

20. Find the value of y.



SECTION B

21. find the value of



i)a ii) b

iii)d iv)c

v) p vi)q

22. The sum of four consecutive odd numbers is 98. If the smallest number is x+2, find the value of x.

23(a) $2^x \times 2^4 = 32$

(b) $3^y \div 3 = 27$

24(a) Show $4x - 5 = -20$ on a well labelled number line.

(c) Given that a = -4, b = a and c = 5. Draw a number line to show a+b = c.

25(a) Solve;

$\frac{x+2}{4} + 4 = \frac{x}{5}$

(b) Akampa is 18 years older than Adrian. In 5 years' time, Akampa will be a 1 the age of Adrian. How old will Akampa be in 9 years' time**?**

26. Each interior angle of a regular polygon is 150^0.

(a) Find the number of sides.

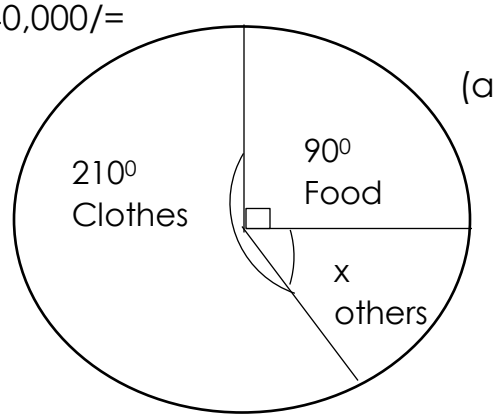
(b) Calculate the total of all its interiors.

27. In a factory, 40% are male workers and there are 28 female workers in this factory.

(a) Find the total number of pupils in this class.

(b) How many more females than males are in this factory**?**

29. The pie chart below shows how Mr. Olowo spends his monthly salary of 1,440,000/=



(a) Find the value of x.

(b) How much money does he spend on food every month**?**

29(a) Given the number 4937, find the place value of 3.

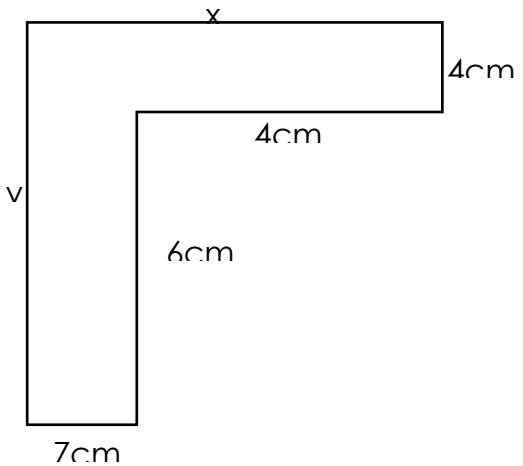
(b) Expand the above number in values.

(c) Write the above number in words.

30(a) The math lesson started at 8:30am and ended at 10:30am. How long did it take**?**

(b) Kanyeko travelled at a speed of 80km/hr covering 240km. How long did the journey take**?**

31. Find the value of x and y



(b) Workout the perimeter of the figure.

32. Construct a triangle ABCD where lien AB = 7cm and line D = 4cm and BC = 7cm A = $\angle 60^0$, B = $\angle 120^0$.

PAPER 12

SECTION A

1. Divide 0.6 ÷ 0.3

2. Find the square root of 0.25.

3. Expand 1011_{two} using exponents.

4. Change 28_{ten} to the binary base.

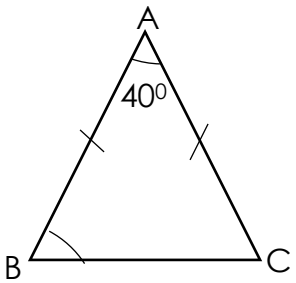
5. Round off 3.49 to the nearest one decimal place.

6. Write 79000 in scientific form.

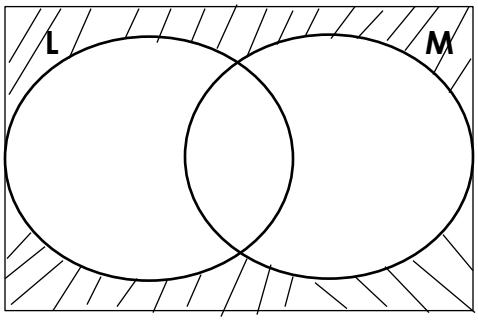
7. Write 5490 in Roman numerals.

8. Solve the equation; $\frac{2}{x-1} = \frac{2}{x-2}$

9. $\overline{AB} = \overline{AC}$ and angle BAC = 40^0, find the value of X.



10. What is shown by the shaded region in this Venn diagram**?**



11. Given that x = 2 and y = 5. Find the value of $\frac{3x+14}{y}$

12. Mary leaves home at 8:45am and arrives at her friend's home at 9:50am. How long did her journey take**?**

13. Express $\frac{2}{3}$ as a decimal fraction.

14. In a village, there are 240 people. 100 of the people have cows but no sheep. 60 people have sheep but no cows. Find the number of people who have both cows and sheep.

15. The area of a square room is $49m^2$. Find the length of one of its sides.

16. A cyclist rode a distance of 6km in 20 minutes. Calculate his speed in km/hr.

17. Picfare industries packs exercise books in bundles of dozens. On Monday, the industry produced 132,000. How many bundles did they produce**?**

18. Find the next number in the sequence

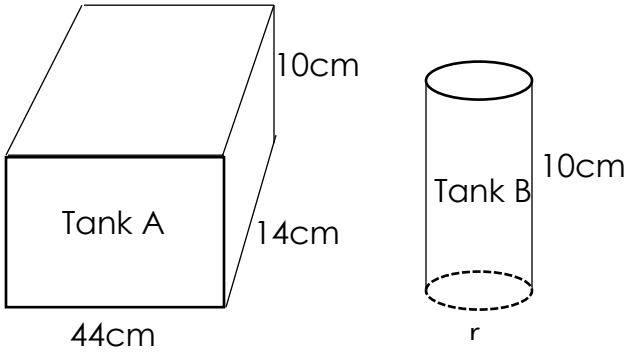
21, 20, 18, 15, _____.

19. Add: 35.7 + 0.35

20. Simplify: 2(7-a) – (8-a)

SECTION B

21. The prisms below are closed at both ends and hold the same amount of water when



(a) Find the radius of the cylinder.

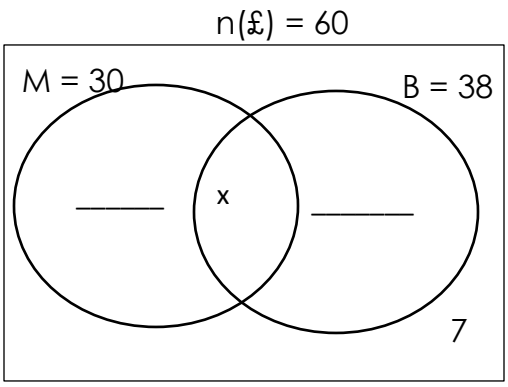
(b) Find the volume of the cylinder in litres.

22. Complete the magic square below.

X	Y	13
12	16	Z
19	W	V

23. In a class of 60 pupils, 30 like eating meat (M), 38 pupils like eating beans (B), 7 pupils do not eat either.

(a) Represent the information on the Venn diagram below.



(b) How many pupils like both food**?**

(c) How many pupils like eating only beans**?**

24. Miria has shss. 200,000 which was decreased in the ratio 3:4.

(a) How much money was she left with**?**

(b) Increase 24,000 in the ration 6:5

25. The average of 4, 10, y and 6 is 7.

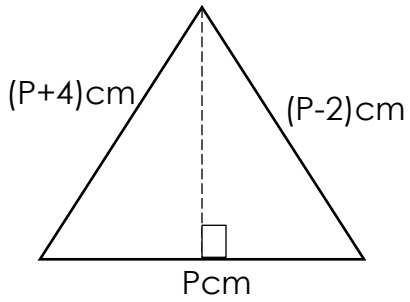
(a) Find the value of y.

(b) Find the range of the numbers.

26(a) Solve; $\frac{e+1}{2} = \frac{2e-1}{3}$

(b) Solve for r in; $4(r-2)+(1-r) = 8$.

27. The three sides of a triangle are (p+4)cm (p-2)cm and Pcm. As perimeter is 50cm and its height is 8cm.



(a) Find the value of P.

(b) Workout the area of the triangle.

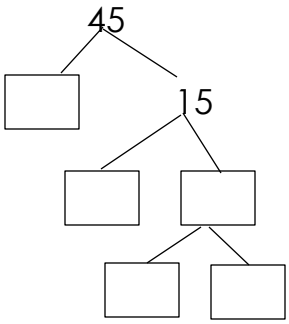
28. In a party there were 3x females and twice as many males. The total number of people at the party was 243.

(a) How many females were in the party**?**

(b) How many more males were in the party than females**?**

29. Find the number of sides of a polygon whose interior angle is 160^0.

30(a) Complete the tree factor below.

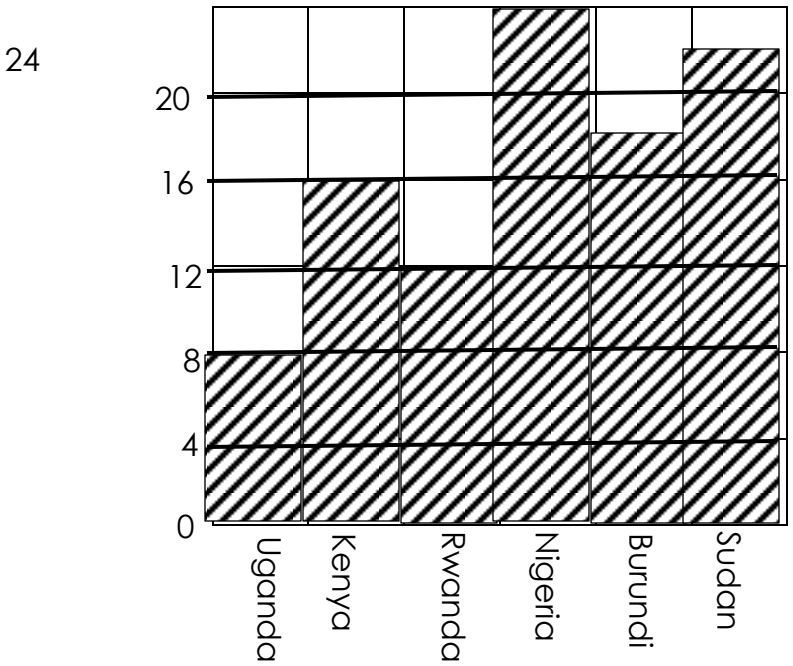


(b) List all the multiplies of 6 less than 32.

32(a) Simplify 6a + 7b – 2a + 4b

(b) 12r – 7x + 3r + 6x – 2r

32. Use the bar graph below to answer the questions that follow.



(a) How many visitors took part in the tour**?**

(b) Which country was the favourite in the tour**?**

(c) Which country has the lowest number of visitors**?**

PRIMARY SEVEN DAILY PRACTICE, MATHEMATICS.

APPLICATION OF EXCHANGE RATES, 2019.

1. A tourist has Ug shs. 159750 and wants to buy US dollars from a forex bureau.

How many US dollars will the tourist get?

Rate at which the bureau buys	Rate at which bureau sells
USD $ 1 = Ug sh. 3500	USD $ 1 = Ug shs. 3550

2. Use the forex rates below to answer the questions below.

Currency	**Buying rate**	**Selling rate**
Dollars	Ug.sh.3600	Ug.sh.3620
Kenya shillings	Ug. Sh. 35	Ug. Sh. 36

a) John has 15 dollars and 160 Kenya shillings, how much in Uganda shillings does he have altogether?

b) A businessman wants to buy a phone which costs Ug.shs. 260640. How many dollars will he need?

3. The exchange rate for Kenya shillings(Ksh) to Uganda shillings (Ug sh.) and the United state dollars (US$) to Uganda shillings are shown below;

Ksh. 1 = ug. Sh.30

US $ 1 = Ug.sh. 2580

a) How many United States dollars will one get from 21500 Kenya shillings?

b) If the cost of a new bicycle is 110 United States dollars, how much would this be in Kenya shillings?

4. The table below shows the rate at which different currencies were sold and bought in a commercial bank during the month of March. Study it carefully and use it to answer questions that follow.

CURRENCY	**SELLING IN UG.SHS.**	**BUYING IN UG.SHS.**
1US dollar ($)	3,600	3,650
1Euro (£)	4,000	4,020
1Rwanda franc	4.0	5.0

a) How many Euros did Samuel get for Ug.shs. 9,800,000 ?

b) Alex came from Rwanda with 720,000 Rwandese Francs and exchanged them for US dollars , how many US dollars did he get from the Bank?

5. The rates at a forex bureau for buying rates and selling rates of different currencies are given in the table below**.**

CURRENCY	**Rate at which a bank buys**	**Rate at which a bank sells.**
One US dollar	Ug. SHS . 2,800	Ug.SHS.2,900
One Kenya SHS.	Ug.SHS. 28	Ug.SHS. 30

a) If a trader has 300 dollars and 500 Kenya shillings, how much money in Ug .SHS.can he get from the bank?

b) Ntuyo has Ug.SHS.1,600,000, how many US dollars can he get from the bank?

6. The table below shows how a bank buys and sells United States dollars and Kenya shillings.

Currency	**Buys**	**Sells**
1 US dollars	Ug. Shs. 3400	Ug. Shs. 3450
1 Kshs.	Ug. Shs. 32	Ug. Shs. 35

a) If a trader buys 40 dollars and 50 Kenya shillings, how much money in Uganda shillings did he get to the bank?

b) If he had Ug. Shs. 31, 500, how much money would he get in Kenya shillings?

7. The table below shows the price list of different items sold at SAM AND ANGELLA Shopping Centre.

ITEM	**COSTS**
A radio set	US $ 300
A television set	US $ 250
A pair of shoes	US $ 55
A refrigerator	US $ 450
Ug Sh. 3500	**US $ 1**
Ug sh. 30	**K shs. 1**

a) John bought two radio sets, one pair of shoes and a refrigerator. Calculate his total expenditure in Uganda shillings.

b) What is the cost of a television set in Kenya shillings?

8. The exchange rate for Kenya shillings(Ksh) to Uganda shillings (Ug sh.) and the United state dollars (US$) to Uganda shillings are shown below;

Ksh. 1 = ug. Sh.30

US $ 1 = Ug.sh. 2580

(a) How many United States dollars will one get from 21500 Kenya shillings?

(b) If the cost of a new bicycle is 110 United States dollars, how much would this be in Kenya shillings?

9. The table below shows how a bank buys and sells United States dollars and Kenya shillings.

Currency	**Buys**	**Sells**
1 US dollars	Ug. Shs. 3400	Ug. Shs. 3450
1 Kshs.	Ug. Shs. 32	Ug. Shs. 35

(a) If a trader buys 40 dollars and 50 Kenya shillings, how much money in Uganda shillings did he get to the bank?

b)If he had Ug. Shs. 31, 500, how much money would he get in Kenya shillings?

10.Study the exchange rates below and answer the questions that follow

- 1US Dollar ($) = Ug shs. 3600
- 1 British pound (£) = Ugsh. 4500
- 1 Kenya shilling (Ksh.) = Ug. Shs. 30

a) Mr. Lule had Ug. Shs. 360,000 which he exchanged into pounds. How many pounds did he get?

b)Darlan bought a phone from USA at US $ 400. What is the cost of the same phone in Kenya shillings?

11. Given the exchange rates are US$ 1= 3500 Uganda shillings and Ksh 1= 30 Uganda shillings.

a) How much money in Uganda shillings can I get from US$400?

(b) If a radio costs US $ 20 find the cost of the radio in Kenya shillings.

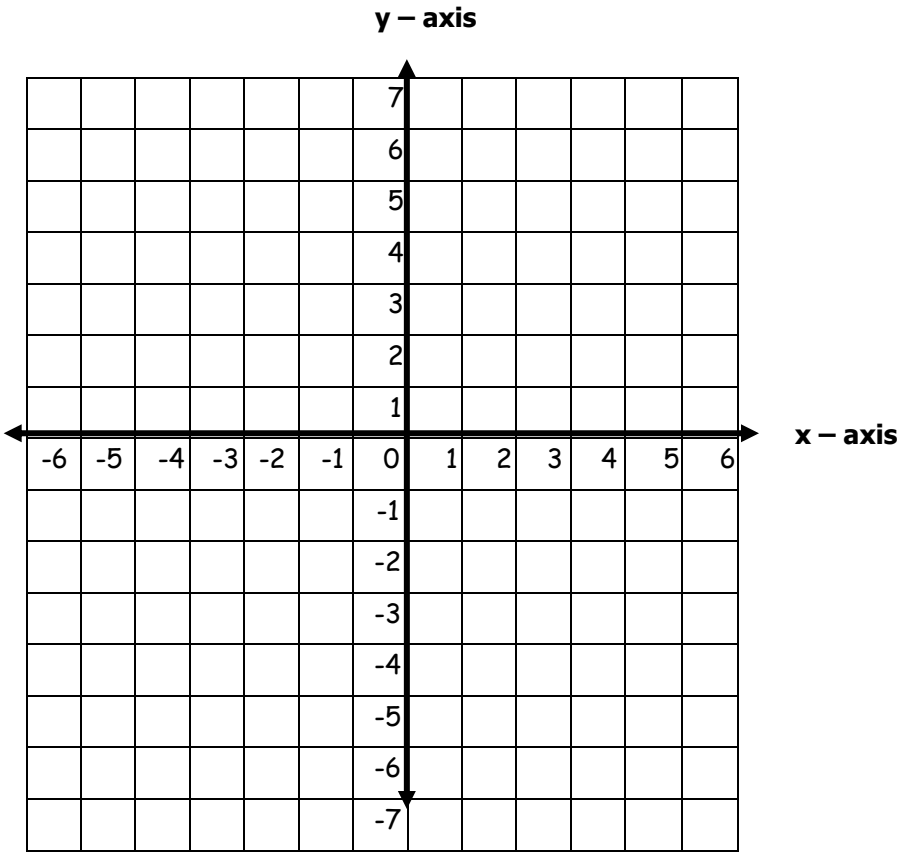
PRIMARY SEVEN PUPILS' WORK TERM ONE, 2019

MATHEMATICS

1. A piece of land is used as follows:
   - 5 hectares for growing maize.
   - 10 hectares for keeping animals.
   - 20 hectares for growing matooke.
   - 25 hectares for growing sugar cane.

   Represent the above information on a circle graph of radius 3cm.

2. Use the graph below to answer the questions that follow.



(a) Plot the points **A**(2, 5), **B**(-3, 1) , ***C***(4, -5) and **D**(0,1)

(b) Join **A** to **B** , **B** to ***C*** to **D** and **D** to ***A***

(c) Name the polygon formed._____

3. Using a pair of compasses, a sharp pencil and a ruler only, construct a parallelogram QPRS and ruler only, where QP = 5.5cm, PR =4cm and angle SQP = 60^0.

(b) Measure the length of diagonal QR._____

4. .a) Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle ABC in which AB = 8cm, $\angle$ BAC = 75^0 and $\angle$ ABC = 45^0.

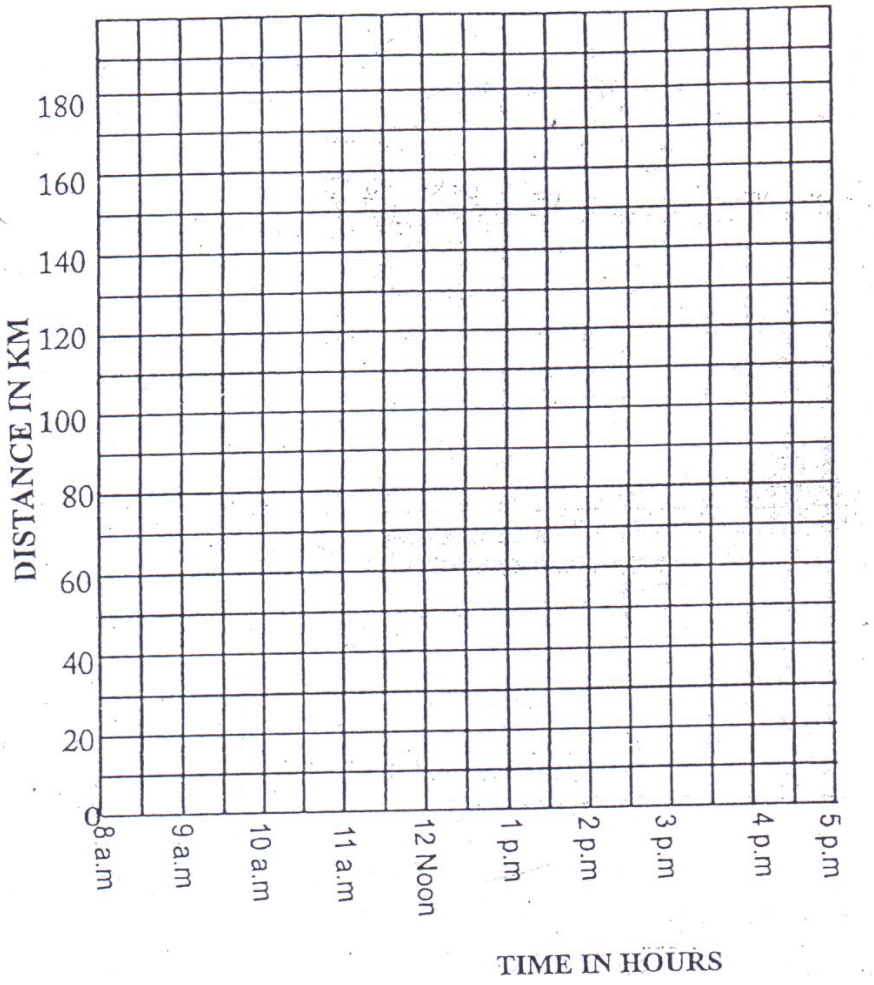
b) Drop a perpendicular line from C to meet AB at K . Find the area of the triangle ABC.

(a) Using a ruler, a pair of compasses and a pencil only, construct an isosceles trapezium in which **PQ** = 8cm, **PS** = **QR** = 4.5cm, angle **SPQ** = angle **RQP** = 60^0. Join point **R** to point **S**.

(b) Measure line SR_____

5. Joan left town **X** at 8:00am and drove at 90km/hr for 1 hour to town **Y**. She rested for $\frac{1}{2}$ an hour at town **Y**. She left town **Y** and drove for 1 hour at 60km/hour to town **Z**. She rested for $\frac{1}{2}$ an hour at town **Z**. She then left town **Z** and drove back to town **X** at a steady speed of 50km/hour.

a)Draw Joan's journey on the graph provided.



b)Work out Joan's average speed for the whole journey.

6. A car left town **A** at 8:45a.m travelling at a speed of 100km/hr for 30 minutes and reached town **B**. At **B** it got a puncture and the repairing took 30 minutes and continued the journey at a speed of 75km/hr for 2 hours.

Show the journey of the car on the graph below.