

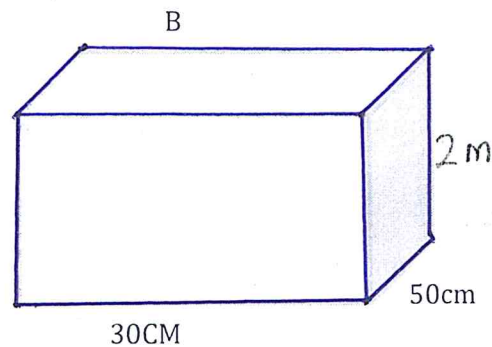
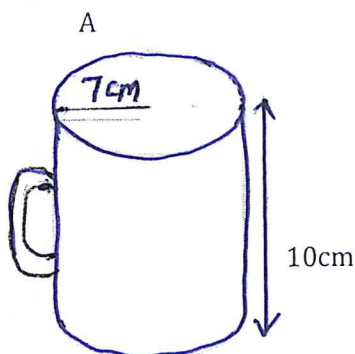
**K.P.M.T.G FORUM (SEMINAR QUESTIONS):**

**MATHEMATICS TEST:**

**PRIMARY SEVEN:**

NAME: \_\_\_\_\_

1. In a mathematics contest of 25 numbers, the teacher awarded 4 marks for every correct answer and deducted 1 mark for every wrong answer. If Jojo got 20 numbers correct, how many marks did he score?
2. Jolly is 30 years younger than her sister Rolly who is  $\frac{2}{3}$  of Kally's age. In 12 years time Rolly will be twice as old as old as Jolly. How old is Kally?
- ✓ 3. Makerere is 24 years older than kyambogo. 40 years ago, the ratio of their ages was 3:2 respectively. How old is Makerere?
4. A man banked sh:1,200,000 in stanbic bank for  $2\frac{1}{2}$  years and paid back a sum of sh:1,500,000. Find the rate at which an interest was given.
5. Esther takes 4 hours arranging books in the library, Athieno takes 2 hours arranging books in the same library. Kuganja takes 3 hours in the same library. One day the librarian asked the three pupils to do the same work in the library together. How long did they take to complete their work?
- ✓ 6. Study the illustration below and answer the questions that follow.



- a) How many cups of size A can be carried using box size B?
- b) How many cups can be arranged in the bottom layer?
- c) Find the number of layers can be realized.

- d) Workout total surface area of the box size B.
- e) If Mary served her visitors porridge prepared in container B using cups size A. How many visitors were served if they took all the porridge?
- f) How much space was left after packing shown above?
7. Maloba painted his rectangular room that measures 3m by 2m by 4m. The room has a door measuring 1m by 50cm and two windows that measure 50cm by 50cm. if he is to paint all the walls and ceiling. Calculate the area of his room that was covered with paint.
8. A circular tank of radius 70cm and height 100cm was split to make a rectangular door sheet.  
a) Calculate the area of the door to be made.
- ✓9. A tank is  $\frac{4}{5}$  full of milk when 360 litres are dtown , it becomes  $\frac{1}{2}$  way full. Find the full capacity of the tank.
- ✓10. Wheel of diameter 14cm rolled 200 times to cover a certain distance. Work out the distance it covered.
11. Male went to the market and bought the following items;
- 2kg of rice at sh:3800@
  - $3 \frac{2}{3}$  of meat at sh:12000 per kg.
  - 2500gms of salt at 2000 per kg
  - 0.5 litres of cooking oil at sh: 8000 per litre
  - 30 tomatoes for 1000 sh every five tomatoes.
- a) How much money did he spend on buying all the items.
- b) If he went with three fifty thousand shillings note. Find his change.
- c) If he was given a 10% discount on meat. How much money did he pay for all the items?
- ✓12. Study the table below and use it to answer questions that follow.

ITEM	QUANTITY	UNIT COST	TOTAL COST
BOOKS	4	SH. 2000	Sh.....
RICE	2 $\frac{1}{2}$ KG	Sh. ....	Sh. 7500
SOAP	.....Bars	Sh 2000	Sh. 9000
TEA LEAVES	500gms	Sh.800	Sh.....
PENS	5	Sh. 500	Sh.....
MANGOES	.....Mangoes	Sh.700	Sh. 5600
<b>TOTAL:</b>			SH.....

- a) Complete the table.

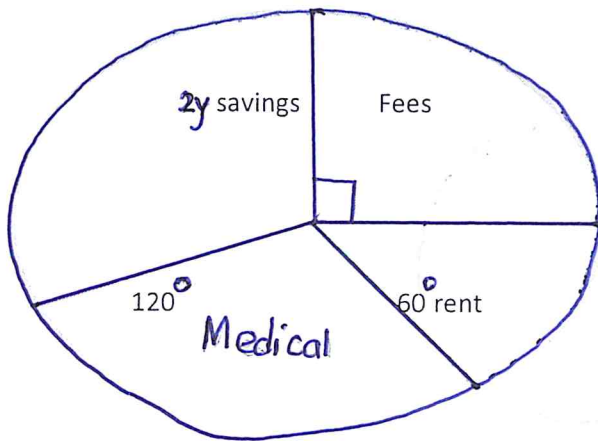
b) How much money did Sharon have at first before buying all the items if she remained with sh: 6900?

13. A cyclist travelled to Kikubampanga from kakiri 60km on a bearing of 135. A pedestrian walked to Bukalango 40km away from Kikubambanga on a bearing of 290.

a) Draw a sketch to represent the two peoples' journey above.

b) Use a scale 1cm to represent 10km to draw an accurate journey for the above sketch

14. The pie chart below shows how Mr. Kimbowa spends his monthly salary. Study it and use it to answer questions that follow.



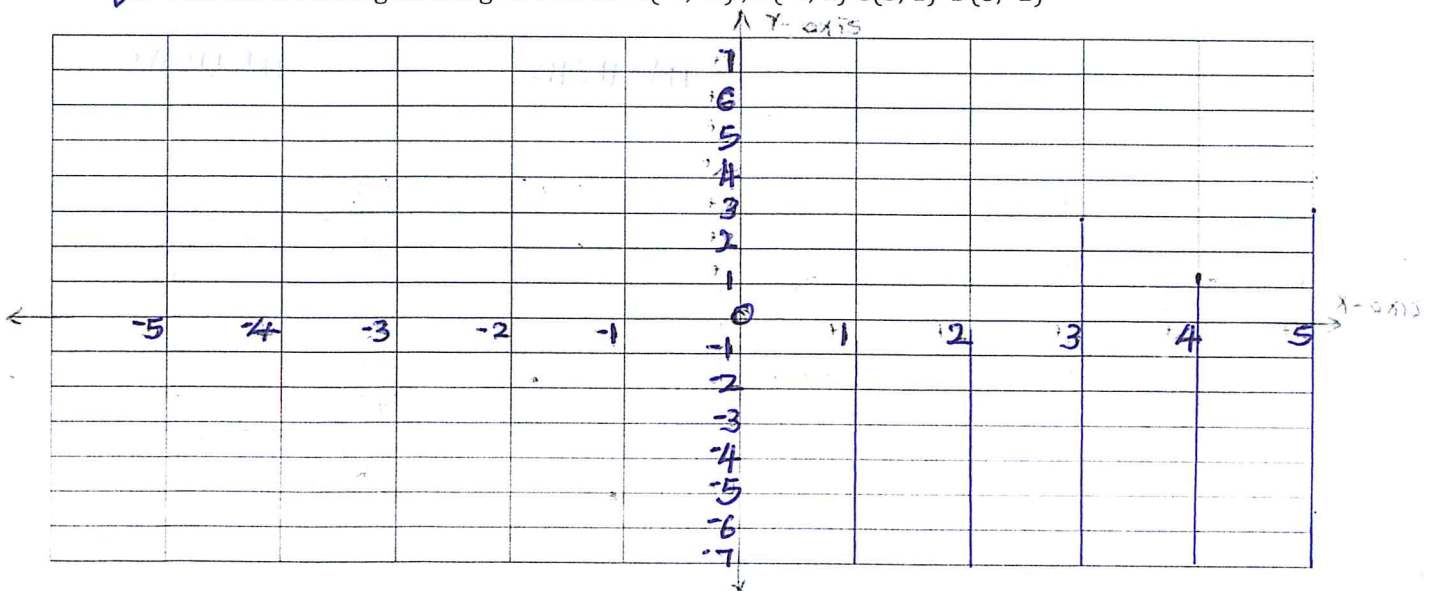
a) Find the angle sector for savings.

b) If he spends sh: 300,000 less on Rent than fees find his monthly salary.

c) How much does he spend on savings?

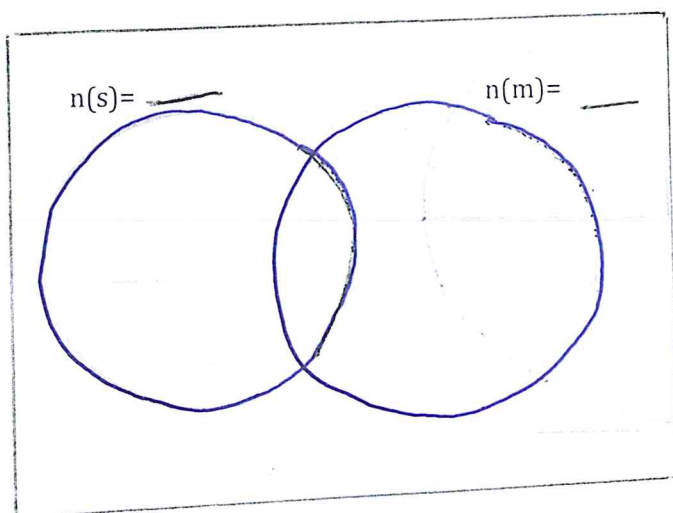
d) Express the amount spent on fees as percentage of his salary.

15. Plot the following on the grid below: A(-4, -2) , B(-4, 1) C(3, 1) D(5, -2)



- Join the point A to B, B to C, C to D and D to A.
- Name the polygon made.
- Work out its area.

16. In a class,  $2x - 10$  pupils like science (s) only,  $x + 20$  like mathematics only (M)  $2x + 4$  like both subjects and  $x$  like neither of the two mentioned subject as shown on the venn diagram below. Use the information to complete the venn diagram below.



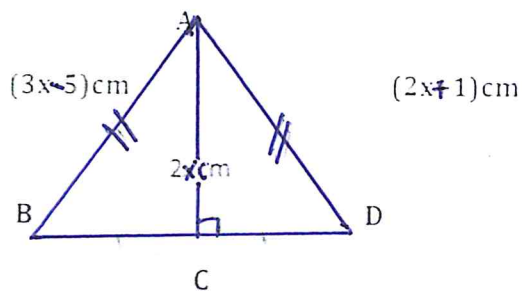
- If 50 pupils do not like mathematics, find the value of  $x$ .
- How many pupils are in the class?

17. In Bulamu Forex Beauru the rates of exchange was displayed as shown below. Use it to answer questions that follow.

CURRENCY	BUYING IN USHS	SELLING IN USHS
KSH	32	35
US \$	32000	35000
POUNDS	41000	4300
EURO	5000	5200

- Card came to Uganda with 210 us dollars. How much in Uganda shillings did he come with?
- Mr. Mugaga is required to pay for a flight in Euros worth Ug.sh. 15,600,000. Find the cost of the ticket in Euros.
- Mr. Putny went to Kenya to buy a car at 14,000 pound sterling. What is the cost of a car in Kenya?

18 Given that ABCD is an isosceles triangle



- Find the value of  $x$ .
- Calculate the area of triangle ACD.
- Workout the perimeter of the figure.

19. The average weight of four boys is 56kg when two other boys join the group the average weight becomes 52kg the 8<sup>th</sup> boy is 8kg heavier than the 5<sup>th</sup> boy. Find the weight of the 8<sup>th</sup> boy.

20. Workout:

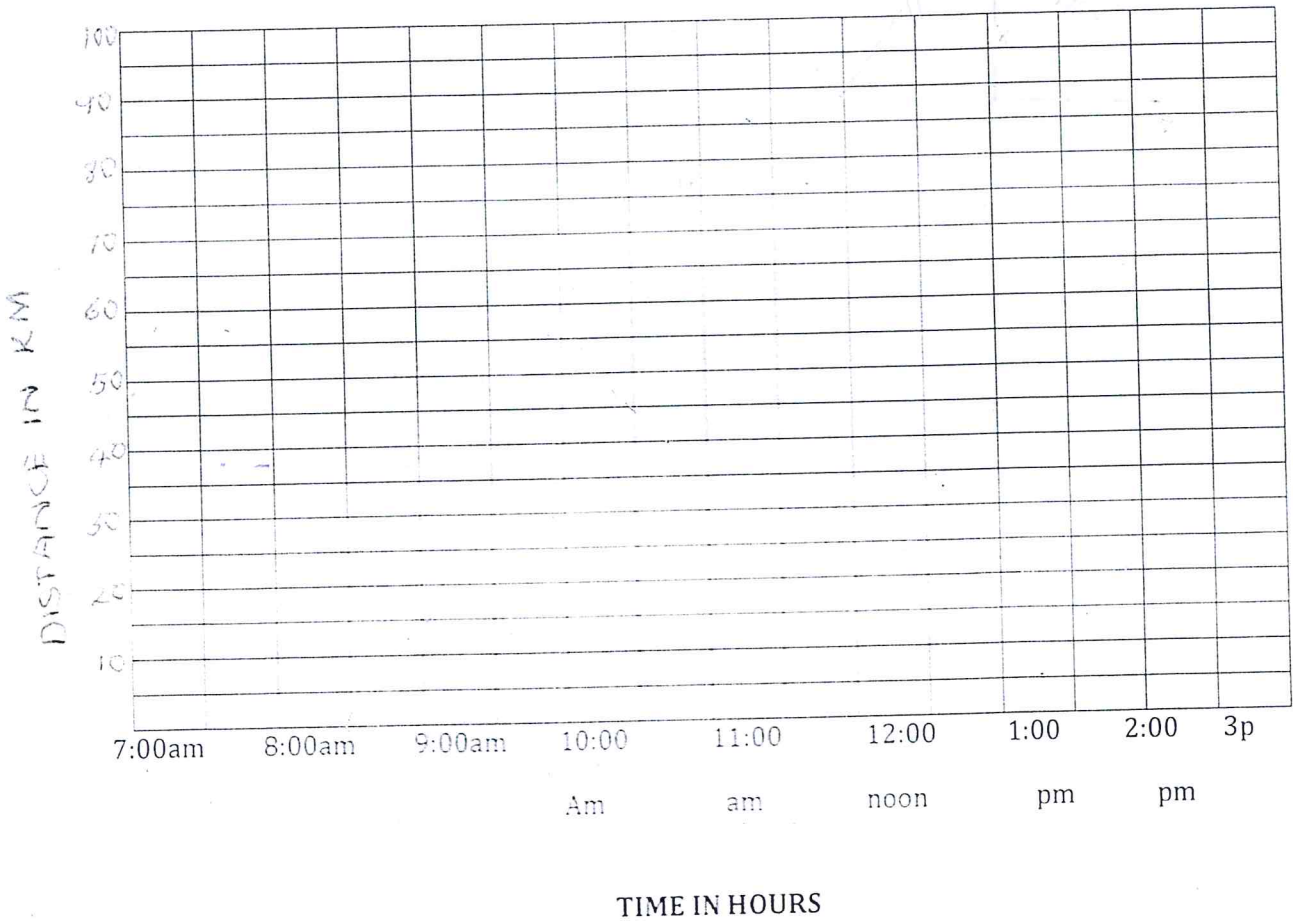
a)  $\frac{3.6 \times 4.8}{0.9 \times 1.2}$

b)  $4.1 + 3.1$

0.009

c)  $\frac{3}{4} + \frac{2}{3} \times \frac{1}{6} \div \frac{3}{5}$  of  $\frac{1}{2}$

21. Mukasa travelled from Kampala to Jinja and then back to Kampala as follows. He travelled from Kampala to Mukono a distance of 40km in 2 ½ hrs., he rested for 30 minutes at Mukono then he continued to Jinja at a speed of 20km for 3 hours. He rested at Jinja ½ hour then came back to Kampala arriving at 3:00pm. Use the data above to draw a distance time graph on the grid below.



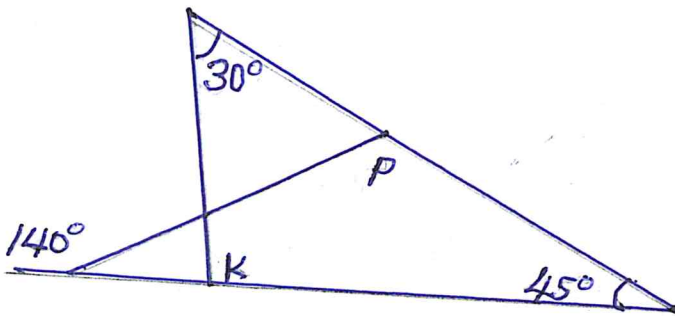
22. Study the magic square and then complete it.

6	C	8
D	5	B
3	A	4

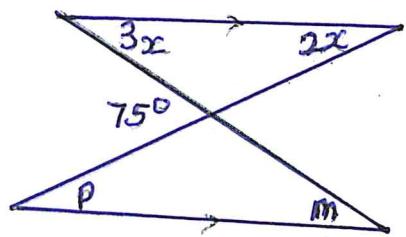
- a) Work out the value of A, B, C, D in the magic square.

23. Find the value of the unknown.

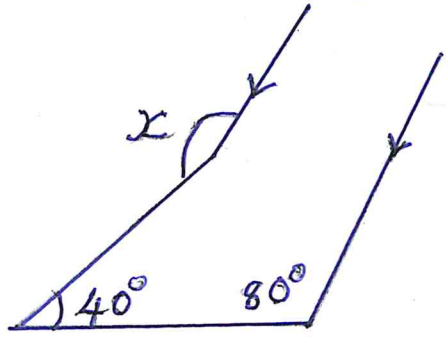
(a)



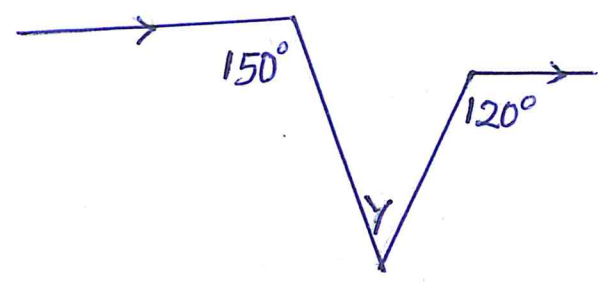
(b)



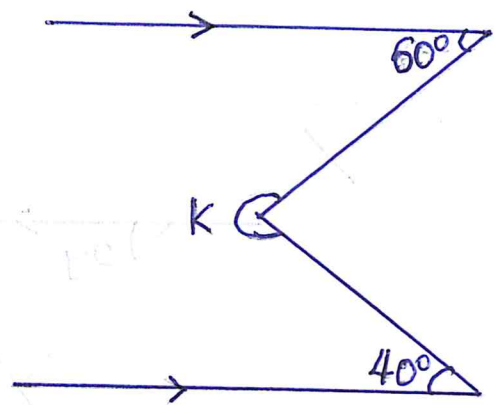
(c)



(d)



(e)



24. The interior and exterior angles of a regular polygon are in the ratio 2:3 respectively.
- Name the polygon
  - Find its interior angle sum.

25. In Nakifubo Park,  $\frac{1}{4}$  of the cars are red,  $\frac{2}{3}$  of the remainder are blue and the rest are yellow.
- Find the fraction of yellow cars in the park.
  - If there are 72 yellow cars in the park, how many blue cars are in the park?

26. In order for a tailor to make a shirt he needs 6 buttons, 2 meters of cloth, one roll of threads, a box 3000 sh labour and 2000 sh which is constant irrespective of the luggage one carries;

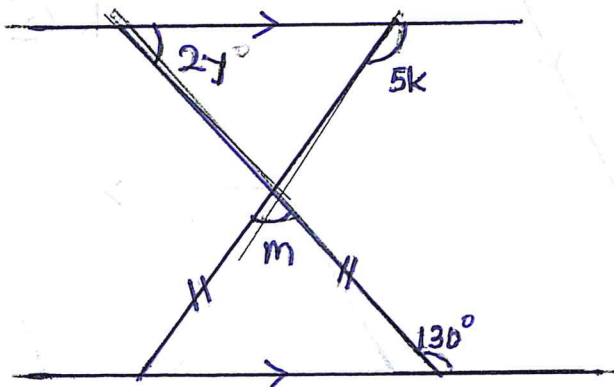
- 1 metre cloth costs sh. 5000
- 1 button costs sh. 200
- A roll of threads cost sh.500

If a tailor made 22 shirts, how much money did he spend altogether?

27. A mother is 20 years older than her daughter Sarah ten years ago, their total age was 50 years. How old will the daughter be in five years' time.

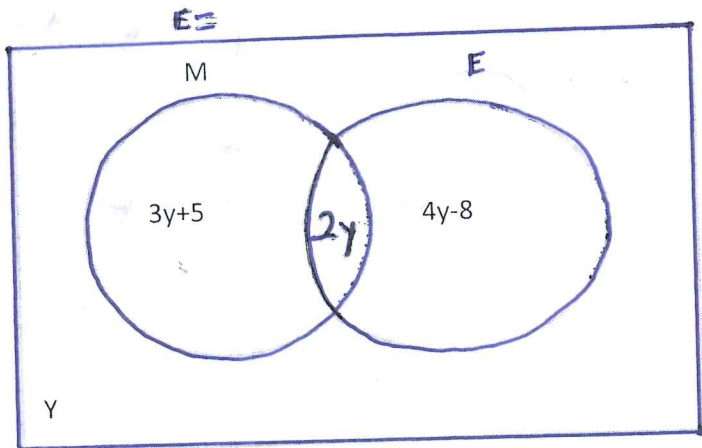
28. A motorist was travelling at an average speed of 40km/hr for 2 hrs from town A town B. after he realized that he was slow, he increased the speed by 20km/hr for the remaining 180km. what was his average speed for the whole journey?

29. Find the value the letters m, y and k.





30. The venn diagram below shows the number of pupils in a primary seven class who like Math (M) and English (E) Study it carefully and answer questions that follow.



- a) If 53 pupils did not like English, how many pupils were in P.7?  
 b) Find the probability of picking at random from the class who liked only one subject.
31. a) What angle is half of its complement?  
 b) Find the angle which is a quarter of its supplement.
32. Express the following as common fractions.  
 a) 2.191919  
 b) 0.12424
33. Last year there were 1200 goats at madam's farm, this year the number has reduced by  $12\frac{1}{2}\%$ . How many goats are on her farm this year?
34. Mary is 20 years older than Don, in ten years' time she will be twice as old as Don. How old is Don?
35. Milk was mixed with water to make tea. If 14 litres of milk was used and this is 40% more than the amount of tea. How much tea was prepared?
36. A dress costs three times as much as a shirt. A skirt costs sh.500 less than a shirt. If the cost of a dress is twice as much as the cost of a shirt and a skirt. Find the cost of a dress.