



SUCCESS INTEGRATED PRIMARY SCHOOL

Pre-Mock Examination (Set 7), 2020

Mathematics

Time: 2 hours 30 minutes

INDEX NUMBER

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NAME: _____

Signature: _____

FOR EXAMINER'S USE ONLY

School: _____

District _____

A	
B	
TOTAL	

Read the following instructions carefully:

1. This paper is made up of section A and B.
2. Section A has 20 short answer questions (40 marks).
3. Section B has 12 questions (60 marks).
4. All answers to both section A and B must be written in the spaces provided.
5. All answers must be written in blue ink and diagrams should be drawn in pencil.
6. Any handwriting that cannot easily be read will lead to loss of marks.
7. Unnecessary alteration of work may lead to loss of marks.
8. No calculators are allowed in the examination room.

PARENT'S COMMENT	
SIGNATURE	
Date:	

SECTION A:(40 Marks)

1. Multiply:
$$\begin{array}{r} 32 \\ \times 3 \\ \hline \\ \hline \end{array}$$

2. Find the value of 3 tens.

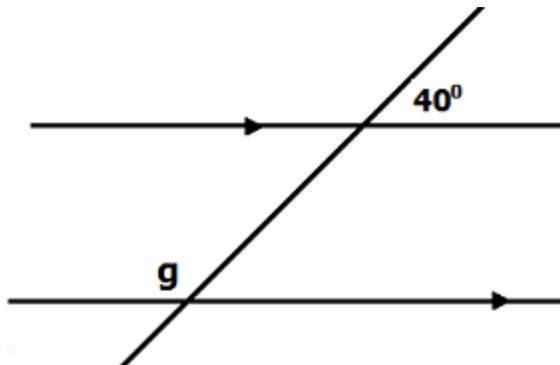
3. Find the next two numbers in the sequence:
1, 4, 9, 16, _____, _____.

4. Find the base two number that has been expanded to give:
 $(1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0)$

5. A man planted trees in a straight line of 2300 metres at an interval of 5 metres. How many trees did he plant?

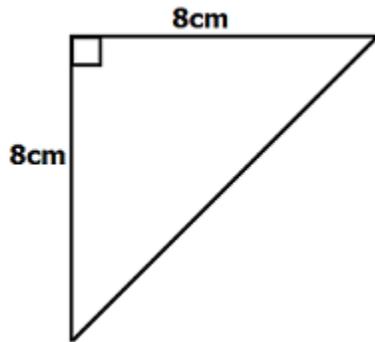
6. The ratio of males to females in a conference is 3:5. If there are 12 more females than males, how many males are in the meeting?
7. Find the least number of books that can either be shared by 7 or 9 pupils leaving a remainder of 2 books.

8. In the figure below, calculate the size of angle marked p.



9. Write the time "a quarter to nine clock" in the evening in a 24 hour clock system.

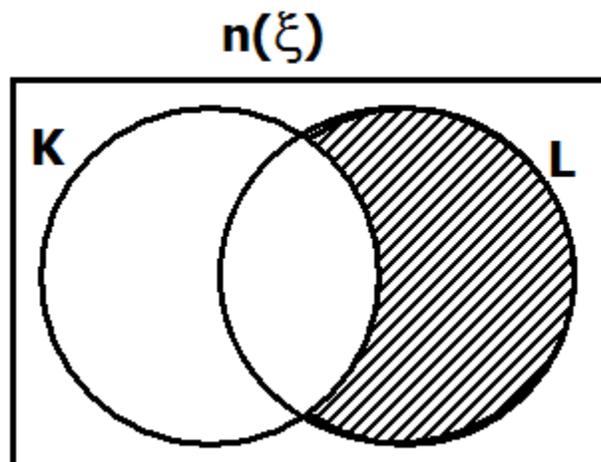
10. Find the perimeter of the triangle below.



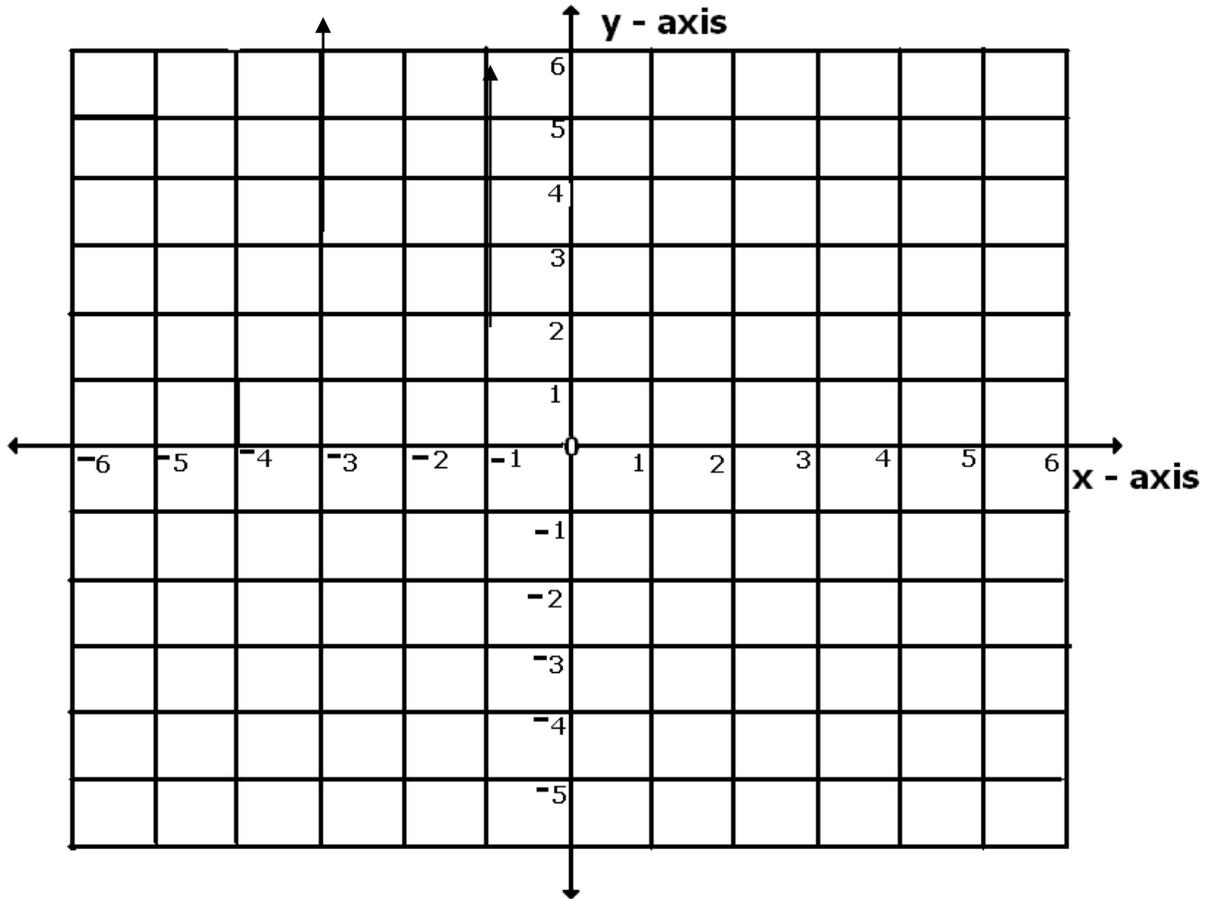
11. The water tank holds 7200cm^3 of water when it is $\frac{3}{4}$ full. Find the capacity of the tank when it is completely full of water.

12. Solve the equation $2(p-8)=18$

13. Name the shaded part in the Venn diagram below.



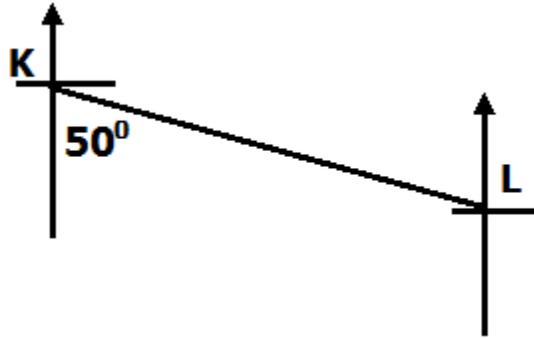
14. On the grid below plot point K(+3, -2)



15. Given 1 ksh = ug sh 28. Amos travels to Kenya with ug sh 19600. How much money does he get in Kenya shillings?

16. Simplify: $+4 - +7$

17. In the figure below, find the bearing of K from L.

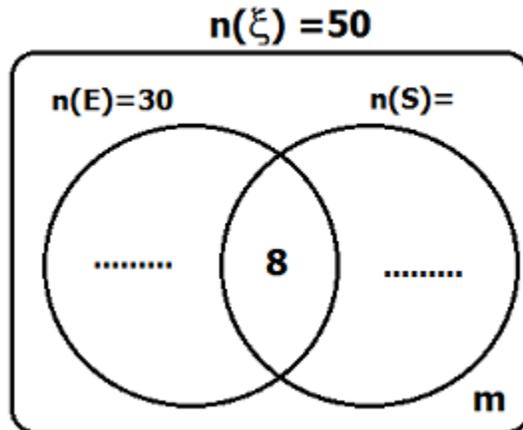


18. Calculate the simple interest on sh. 2400 banked for 6 months at a rate of 8% per month.
19. The average age of 4 boys is 15 years. Their ages are 18 years, 12 years, x years and 10 years. Find the value of x .
20. Calculate the speed of a car which travels distance of 135 km in 45 minutes.

Section B

21. In a class of 50 pupils, 30 pupils like English 15 pupils like science only and 8 pupils like both subjects while **m** members like neither of the subjects.

(a) Complete the Venn diagram below. (3 marks)



(b) How many pupils don't like any of the above mentioned subjects?

(c) Find $n(s)$.

22(a) Find the 3 consecutive even numbers whose sum is 72.

(b) Find the range of the numbers.

23. **Complete the shopping bill below.**

Item	Quantity	Unit cost	Amount
Sugar	2kg	Sh. 4000	Sh. _____
Soap	_____ bars	Sh. 4000	Sh. 12000
Rice	1½kg	Sh. _____	Sh. 5400
Cooking oil	_____ litres	Sh. 2400	Sh. 6000
Total			Sh. _____

24(a) Using a pair of compasses and ruler only, construct a parallelogram PQRS in which $PQ = 7\text{cm}$ and $\text{angle } SPR = 45^\circ$.

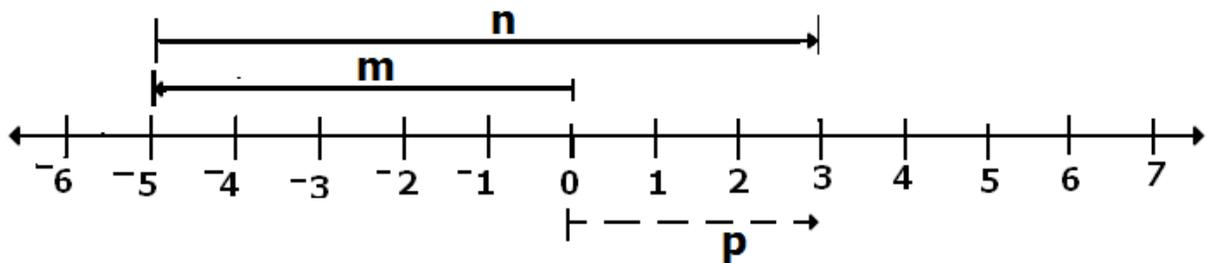
(b) Measure diagonal QS.

25. In a class of 45 pupils, $\frac{1}{3}$ are boys .

(a) Find the fraction of girls.

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

26. **Study the number line below and use it to answer the questions that follow.**



(a) Write integer represented by arrows:

(i) m _____ (ii) n _____ (iii) p _____

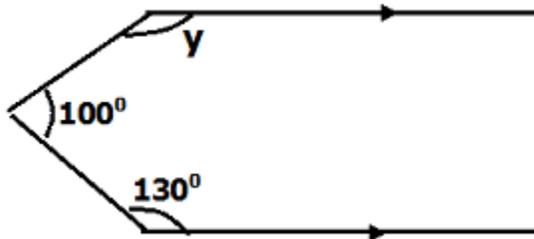
(b) Write the mathematical statement shown on the number line above.

27(a) Solve for x: $2^x \times 2^2 = 16$

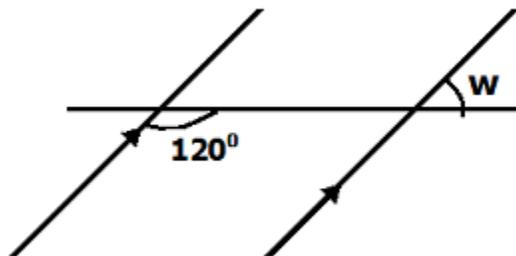
(b) If $a=7$, $b=-2$ and $c =4$. Find the value of $bc - ab$.

28. Find the size of the angles marked by the letters in the figures below.

(a)



(b)



29. A cyclist started his journey at 7:15 am and reached his destination at 9:00 am.

(a) How long did the journey take?

(b) If he covered a distance of 120km, Calculate his average speed.

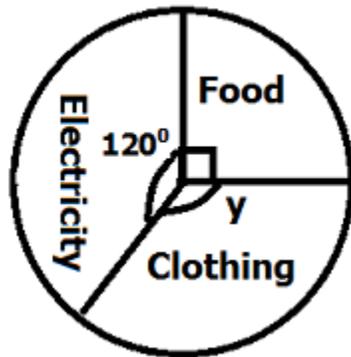
30(a) The area of a circle is 45cm^2 . Find the perimeter of the circle.

(b) Find the diameter of a circle whose circumference is 132cm.

31(a) Four boys can dig a garden in 12 days. How many more days will 2 boys take to dig the same garden working at the same rate.

(b) Decrease 240 kg of maize in the ratio 2:5

32. The pie chart below shows how man spends his monthly salary.



- (a) Find the value of y .
- (b) If he spends sh. 24000 on electricity, how much money does he earn monthly?
- (c) How much money does he spend on food?

