THE SPECTRUM EXAMINATIONS HUB

TEACHERS' INTERVIEW
SUBJECT: MATHEMATICS
SECTION: LOWER PRIMARY

Time: 2 hours

DATE_____

TEACHER'S CODE_____TEL._____

FOR EXAMINER'S USE ONLY

SECTION	SCORE	HEAD OF DEPT'S COMMENT
A		
B		
TOTAL		

Read the following instructions carefully:

1. This paper is made up of sections, **A** and **B**.

2. Section **A** has **20** short answer questions (**40** marks).

3. Section **B** has **12** questions (**60** marks).

4. Answer ALL questions. 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 show all the necessary side work.

6. Any handwriting that cannot easily be read will lead to loss of marks.

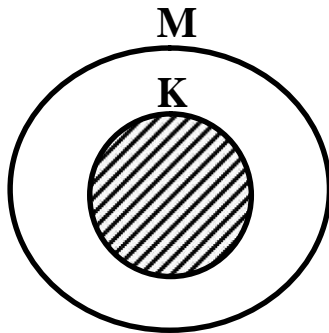7. Unnecessary alteration of work may lead to loss of marks.

SECTION: A (40 MARKS)

1. Work out: 0.17 x 0.8

2. 16 men can mow a school compound in 5 days, how many men can do the same work in 20 days**?**

3. Describe the shaded parts in the figure below
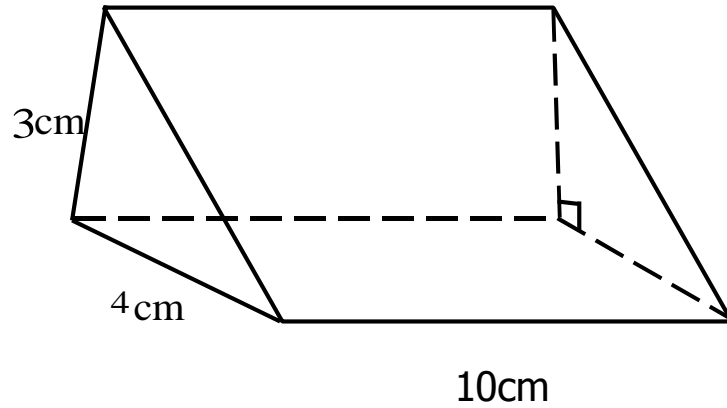

4. Round off 3927 to the nearest hundreds

5. Mr. Angupale, a teacher of science at Exodus Junior school planted 100 trees and the distance from one tree to another was 50m. Find the total distance between the first tree and the last one.

6. A radio uses batteries of 1.5 volts. In order for the radio to work, it requires 24volts. How many such batteries will the radio require?

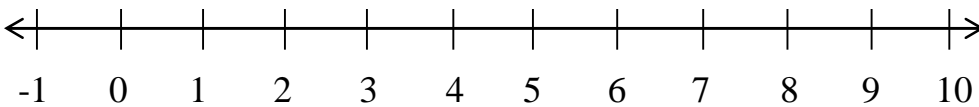7. Ojomu and Ajumu shared shs. 60,000 in a ratio of 3:7 respectively. How much did each get?

8. Workout the sum of the next two values in the sequence below;
   27, 9, 3, 1, _____, _____

9. Calculate the volume of the figure below.

3cm

4cm

10cm

10. A 50-minute swimming lesson started at 11:15am. What time did it end?

11. Workout 3 × 2 using the number line below
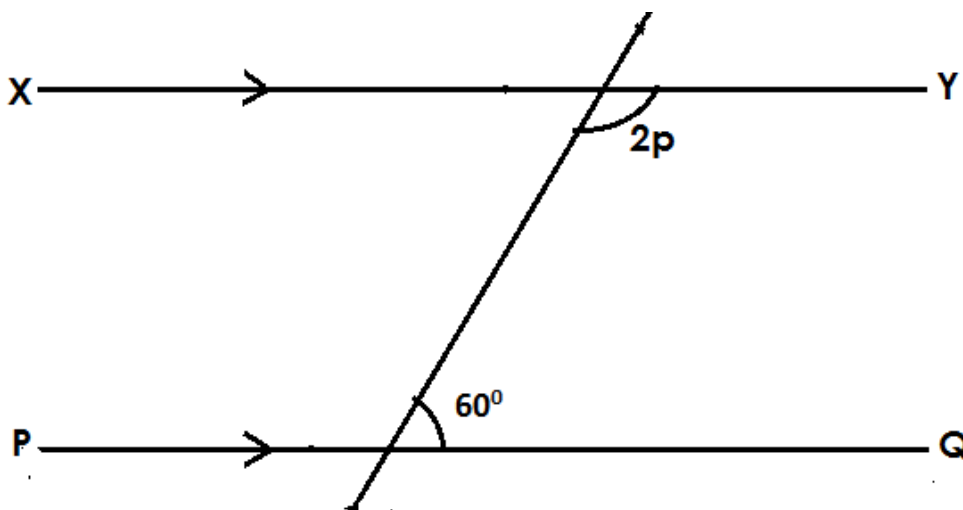

-1　0　1　2　3　4　5　6　7　8　9　10

12. Rose is 8 years old and Rhona is 38 years.

In how many years will Rhona be twice as old as Rose?

13. Write MMLXXIX in Hindu Arabic numerals

14. Expand 4392 using exponents.

15. The prime factorization of 30 is 2 x 3 x P. Find the value of P.

16. Find the median in; 4, 4, 0, 8 and 10

17. In a P.3 class, 56% of the pupils are Christians and 24% are Muslims. What is the percentage of other religions?

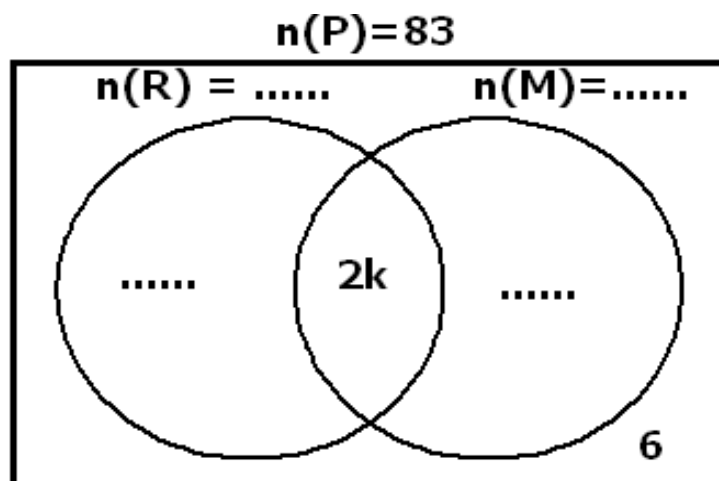18. In the figure below XY is parallel to PQ. Calculate the value of P in degrees.

X $\longrightarrow$ Y

2p

60°

P $\longrightarrow$ Q

19. A bus travelled for 2 hours to cover a distance of 120km. At what speed in km/hr was the bus travelling?

20. Solve : $\dfrac{10}{w} + \dfrac{2w}{4} = \dfrac{12}{w}$

SECTION: B

21. In a class of 83 pupils, all of them like Posho (**P**), 47 of them like Matooke (**M**), 40 like Rice (**R**), **2k** like all the three types of food while 6 like only Posho.
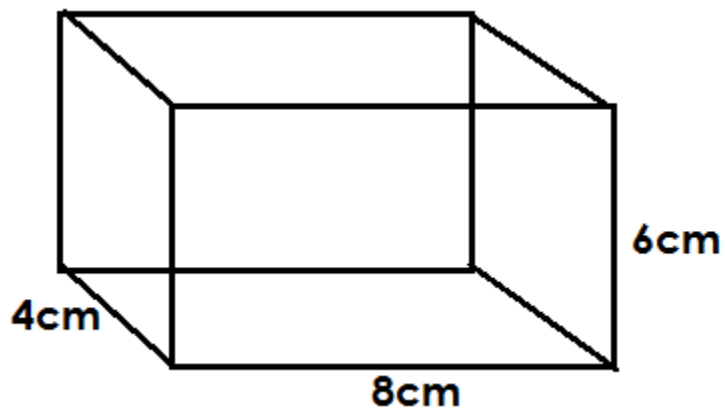
(a) Represent the above information on the Venn diagram below. (2 marks)

n(P)=83

n(R) = ...   n(M)=......

...... | 2k | ......

6

(b) Work out the value of **k**. (2 marks)

(c) How many pupils like only two types of food?   (2 marks)

22.   Given the figure below.

6cm

4cm

8cm

8m

a) Name the figure above. (1 mark)

b) Find the number of;- (1 mark @)

i) edges   ii) faces

iii) vertices

c)Work out the volume of the figure above. (2 marks)

23. Given the number 7843.25;

a)   What is the place value of 2 in the number above?

b)   Find the sum of the values of 4 and 5 in the number above.

c)   Write the given number in words without using the word point.

24. The capacities of two similar bottles are 300ml and 8100ml. If the height of the larger bottle is 12cm. Find the height of the smaller one. (4mks)
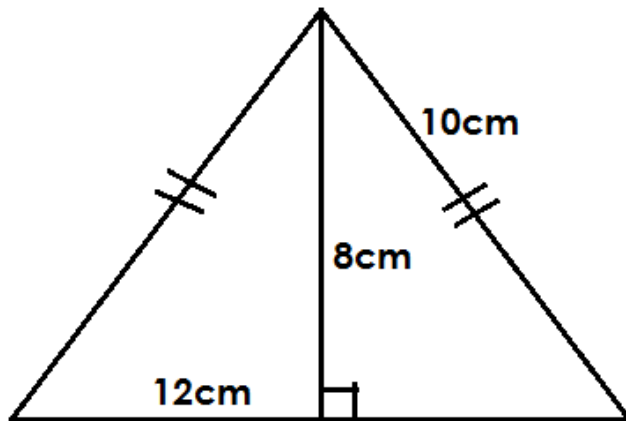
25. In a class of 80 pupils, $\frac{5}{8}$ of them are boys and the rest are girls.

a) Find the fraction of girls. (2 marks)

b) Find the number of boys. (2 marks)

c) How many more boys than girls are there?   (2 marks)

26.The figure shown below is of a triangle.
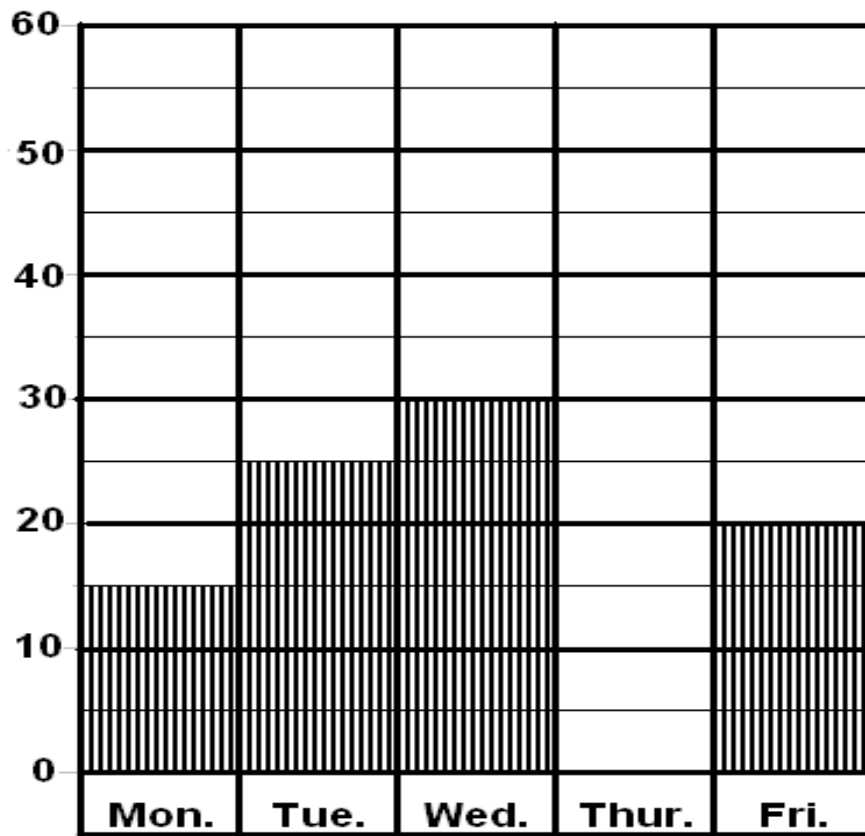

a) What is the measure of its;   (1mark @)

   (i)   height

   (ii)   base

b) Work out its area.   (2 marks)

c) Calculate its perimeter.   (2 marks)

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

(a)   How many pupils were absent on Tuesday?   (1 mark)

(b)   On which day of the week was the attendance 100%?   (1mark)

(c)   How many pupils were absent throughout the week?   (2 marks)

27. A builder went to the hardware and bought the following building materials;

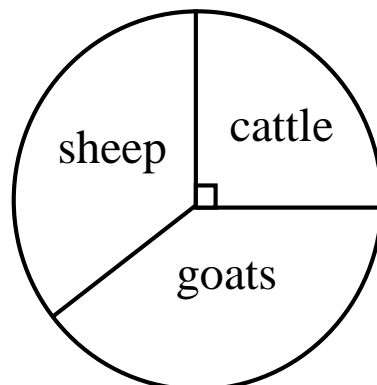20 bags of cement at 32000/= each

12kg of nails at 6000/= each.

2 big tins of paint at 40,000/= each.

a) How much money did he spend altogether?   (4 marks)

b) If he had shs. 900,000. How much money did he remain with? (2 marks)

28.   The pie chart below shows the 144 animals on Matende's farm. Study it carefully and answer questions about it.

a) If there are 48 goats, find the angle sector for goats. (2 marks)

b) Express the number of sheep as a ratio of the total number of animals on the farm.   (3 marks)

29. Write all the factors of (1 mark)
(a)   12

(b)   18

(c)   What is the Greatest Common factor of 12 and 18.   (2 marks)

30.(a) Solve: 3y + 4 = 28   (02 marks)

(b) Simplify: 2y − 8x + 6y = 4x   (02 marks)

32. Use a ruler, a pencil and a pair of compasses only to construct a regular hexagon in a circle of radius 3cm.