LITTLE MUHEJI SCHOOL
SET XXVIII EXAMINATION 2020
PRIMARY SEVEN MATHEMATICS

NAME: _____

CLASS: _____STREAM: _____

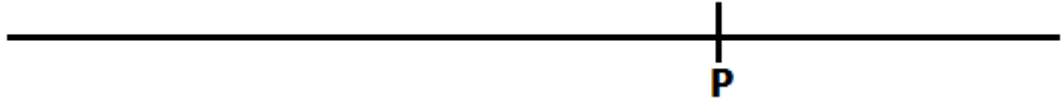### SECTION A:(40 Marks)

1.   Add: 68 + 432

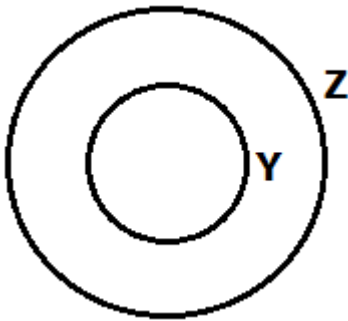2.   Simplify: $^-9 - {}^-4$

3.   Divide: 8 ÷ 0.2

4.   Write 46 in Roman numerals.

5.   Round off 39.96 to the nearest tenth.

6. Using a pencil, a ruler and a pair of compasses only, construct an angle of 120^0 at point P.

_____|_____
                                        P

7. In the Venn diagram below, shade Y ∩ Z.

8. Find the next number in the sequence: 1, 2, 4, 8, _____.
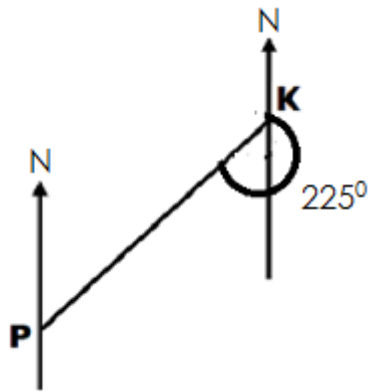
9. Increase 600 in the ratio of 4:3.

10. Calculate the length of the rectangle below if its perimeter is 20cm.

4cm

11.   James drove at a speed of 10 metres per second. Express his speed in kilometres per hour.

12.   Write in figures: "One hundred two thousand."

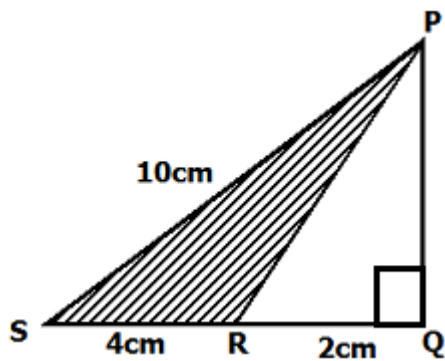13.   The bearing of P from K is 225^0. What is the bearing of K from P?

14.   Write 0.016 in Scientific notation (standard form).

15.   John went to bed at 21:30 hrs. Write this time in the 12-hour clock system.

16. Mercy bought a blanket at sh. 45,000 and sold it for sh. 30,000. What was his percentage loss?

17. Given that set K = { 2, 4, 6, 8}. How many subsets does it have?

18. In the figure below, what is the length of PQ?

19. Arrange the following integers in ascending order: 3, 0, ‾1, 8, ‾2.

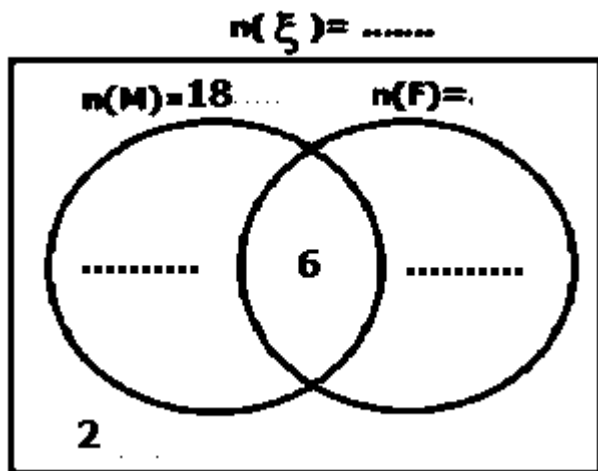20. If today is Tuesday, what day of the week will it be after 34 days?

Section B

21. The table below shows marks scored in Kigunga Primary School in a maths test.

Marks scored	36	40	65	55
Number of pupils	5	3	2	2

(a) Find the range of the marks. **(1 mark)**

(b) What was the modal frequency? **(1 mark)**

(c) Calculate the mean mark. **(2 marks)**

22(a) Solve the equation: $3(y - 5) = 6$ **(2 marks)**

(b) Zuhura is 19 years younger than Shamim. In 7 years' time Zuhura will be half as old as shamim. How old is Zuhura now? **(3 marks)**

23. In a family, 18 people like meat (M), 9 like fish (F) only, 6 like both dishes while 2 do not like any of the two dishes.

(a) Represent the information above in the Venn diagram below. **(2 marks)**

$n(\xi) = \ldots\ldots$

$n(M)=18\ldots$ $n(F)=$

6

2

(b) How many do not like meat. **(1 mark)**

(c) How many people are in the family? **(1 mark)**

(d) What is the probability of picking at random a member of the family who does not eat fish? **(1 mark)**

24. The exterior angle of a polygon is 90^0 less than its interior angle.

(a) Find the size of the interior angle. **(2 marks)**

(b)   How any sides does the polygon have?   **(1 mark)**

(c)   Calculate the sum of interior angles of the polygon.   **(2 marks)**

25.   Apio, Adongo and Acen shared a certain amount of money in the ratio 4:5:6
       respectively.

(a)   If Adongo got sh.15,000. How much money was shared by all the three children?
                                                                      (3 marks)

(b)   How much more money did Acen get than Apio?   **(3 marks)**

26. Using a ruler and a pair of compasses only, construct a rhombus PRTS such that diagonal PT = 6cm and RS = 8cm. **(4 marks)**
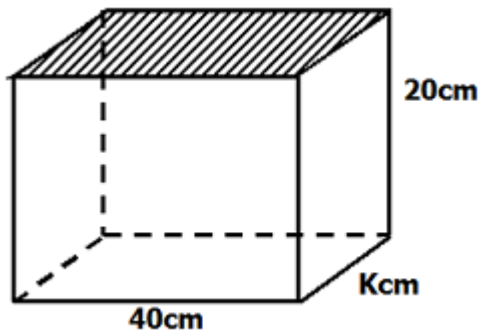
(b) Measure the length of PR. **(1 mark)**

27. A mother is three times as old as her daughter. In 10 years' time their age difference will be 36 years.

(a) How old is the daughter now? **(2 marks)**

(b) How old will the mother be then? **(2 mark)**
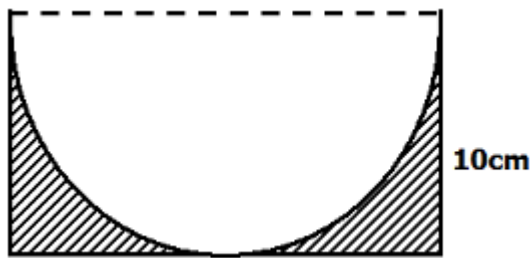
28. The volume of the cuboid below is 12000cm³.

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

(b) What is the total surface area of the cuboid. **(2 marks)**

29. Kyambadde went to the shop and bought the following:

250g of groundnuts at sh.6000 per Kg.
42 mangoes at sh.2000 for every 3 mangoes.
2 ½ litres of milk at sh. 2600 per litre.
4 packets of biscuits at sh.6000

If Kymbadde was offered a discount of sh.1300 discount, how much money did he pay for the all the items? **(6 marks)**
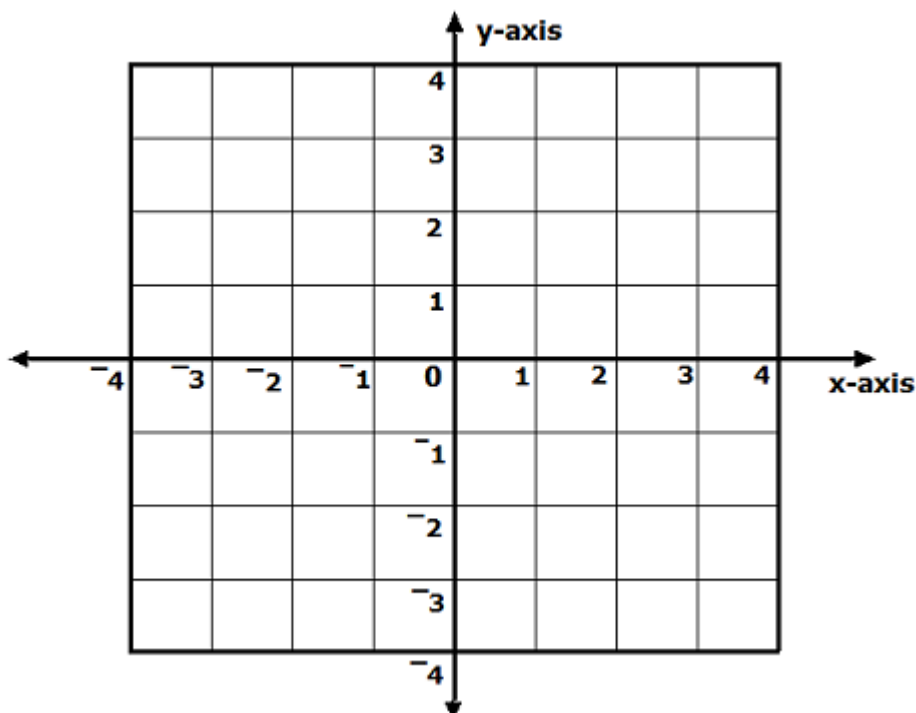
30.   Study the shape given below and answer the questions that follow. (Use π = 3.14)

10cm

(a)   Calculate the perimeter of the shape.   **(2 marks)**
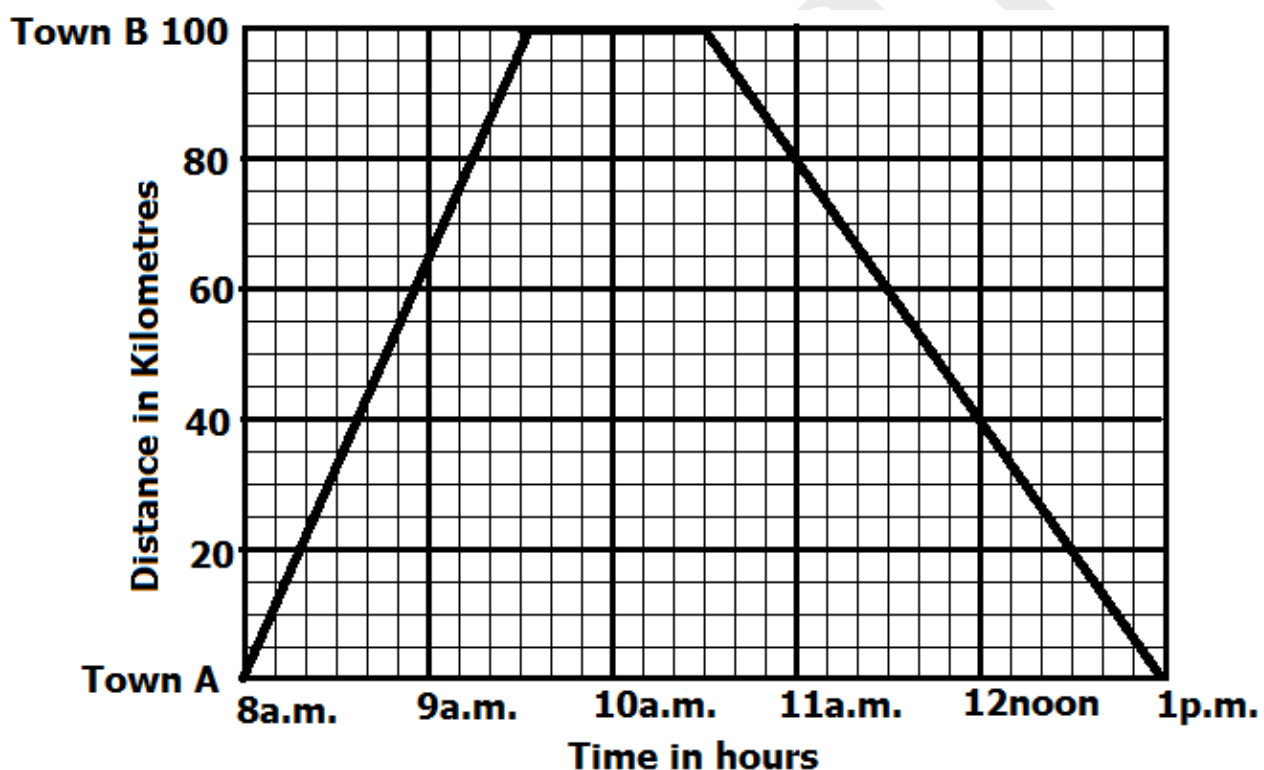
(b)   Work out the area of the shaded part of the figure.   **(3 marks)**

31(a) On the grid below, plot the following points: A($^-$3,3) , B(1,3), C(4,$^-$1) and D($^-$3,$^-$1)
                                                                               (4 marks)

(b)   Join the points A to B, B to C , C to D and D to A. What is the area of the formed polygon?   **(1 mark)**

32.   **The travel graph below shows a journey by bus from town A to town B and back to town A. Use it to answer the questions that follow.**

(a)   How far is town A from town B?   **(1 mark)**

(b)   At what time did the bus reach town B?   **(1 mark)**

(c)   How long did the whole journey take?   **(1 mark)**

(d)   Find the average speed of the bus for the whole journey.   **(2 marks)**