SURE KEY EXAMINATIONS BOARD
PRIMARY FIVE END OF TERM ONE EXAMINATION
2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Admission No.						Personal No.		

Pupil's Name: ....

Pupil's Signature: ....

School Name: ....

District Name: ....

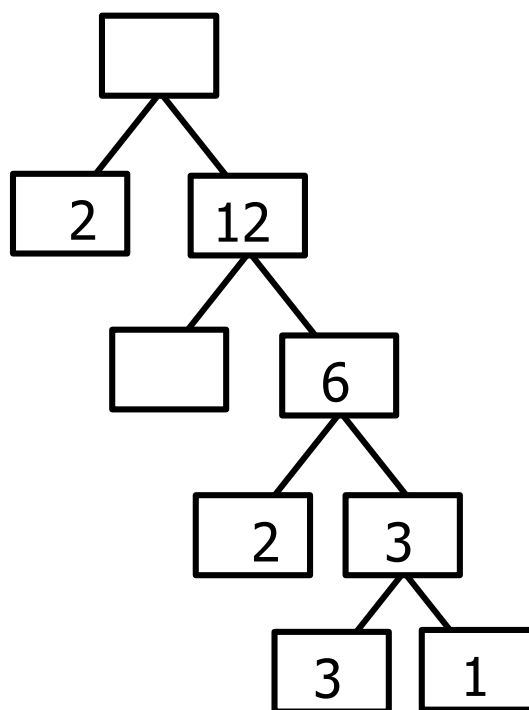### Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** on this paper.

2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **12 printed pages** altogether

3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.

4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.

5. **No calculators** are allowed in the examination room.

6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.

7. Do not fill anything in the table indicated: **"For Examiners' Use only"** and boxes

Answer **all** questions in this Section
Questions **1** to **20** carry two marks each

1.   Workout: 660 ÷ 6.

2.   Write 24583 in words.

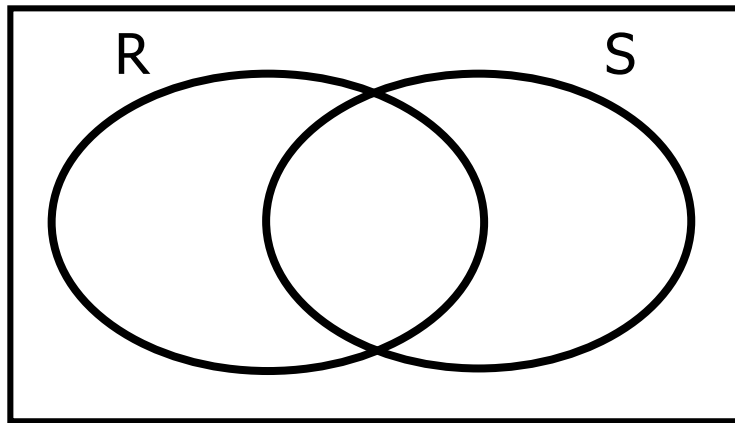3.   Complete the factor tree below by filling in the missing numbers.

4.   Find the sum of the first four prime numbers.

5.   Calculate the difference of the next two numbers in the sequence;
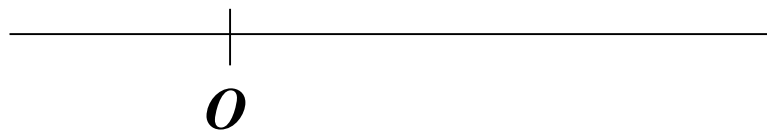
10 , 17 , 24 , 31 , ……….. , …………

6. Alex bought a book at sh.8,600. He later sold it to Musa at sh.5,550. What loss did Alex make after selling the book?

7. Represent (R U S) by shading the Venn diagram below.

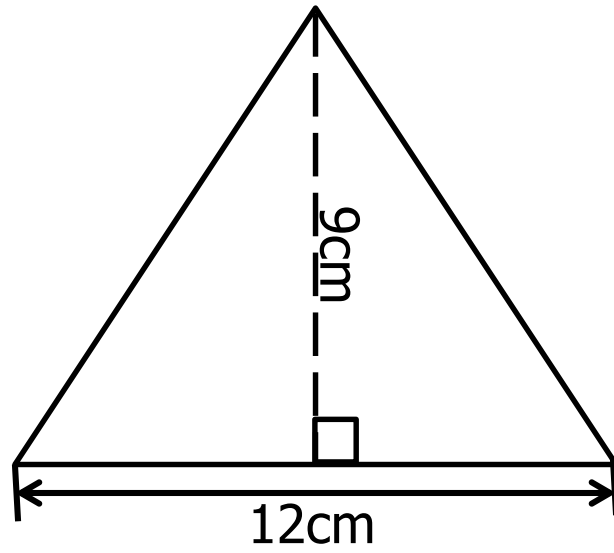8. A Mathematics lesson started at 2:35 p.m. and ended at 6:05 p.m. How long did the lesson take?

9. Using a pair of compasses, a ruler and a sharp pencil only, construct an angle of 90^0 at point O below.

O

10. Keneth had 7 children. He gave each of them sh.72,000 to go for a tour. How much did he give to his children altogether?

Turn Over

11.   Find the area of the figure below.

9cm

12cm

12.   Solve: 3r - 8 = 10.

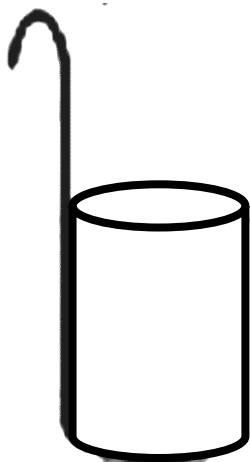13.   Work out the value of 8 in the number 62.4831.

14.   Sammy's baby weighs DCCC grams. Express the weight of Sammy's baby in kilograms.

15.   Given that $\dfrac{p}{3}$ = 2. Find the value of p.

16. Trevor had 3 black pens and 6 red pens mixed in a box. What is the probability of him picking a red pen from the box?

17. The diagram below represents a $\frac{1}{2}$ litre container which a shop keeper uses to sell cooking oil. How many such containers will the shopkeeper sell from a 3 litre jerrycan of cooling oil?

18. Workout: $\dfrac{6 \times 2}{3 \times 3}$

19. The age of Musa is a half Peter's age. If Musa is 36 years old, how old is Peter?

20. What number has been expanded to give;

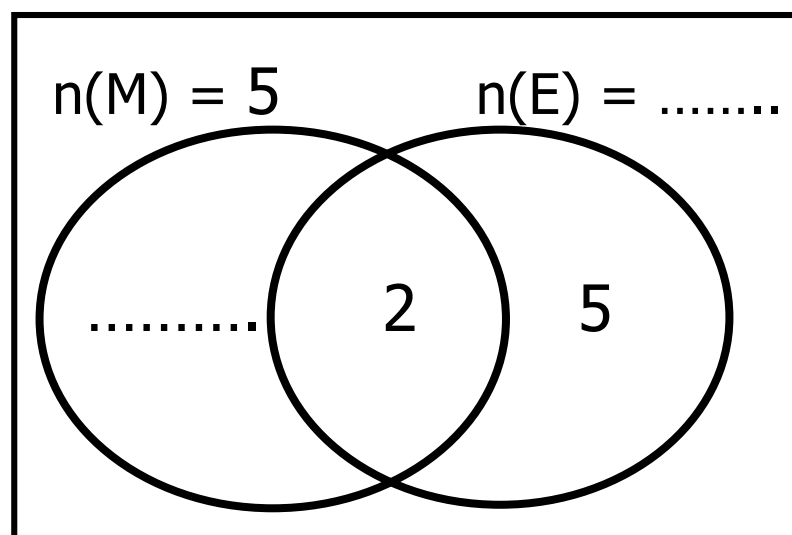$$(4 \times 10^2) + (6 \times 10^1) + (2 \times 10^0)$$

SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets.

21. The Venn diagram below shows number of elements formed in two different sets, **M** and **E**. Use it to answer the questions that follow.

   a) Complete the Venn diagram below.   (02 Mark)

$n(M) = 5$ $n(E) = $ ……..

………..   2   5

   b) Find the number of subsets that can be formed from the elements of set M only.   (02 Marks)

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

        1kg of beans at sh.4,500 per kg.

        3 bars of soap at sh. 21,000.

        2kg of sugar at sh.7,000 per kg.

(a) How much did Shamran pay for a bar of soap and $1\frac{1}{2}$kg of sugar?

(04 Marks)

(b) Find out how much he would have paid for beans if he had decided to buy 500grams instead of 1kg. (02 Marks)

23. Given that a = 6, b = 4 and c = 2. Find the value of :

(a) $\dfrac{a \times b}{c}$ (02 Marks)

(b) (b + c) x a (02 Marks)

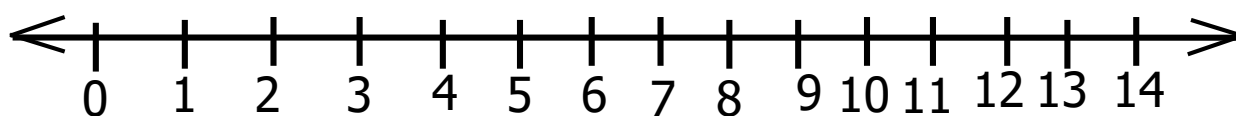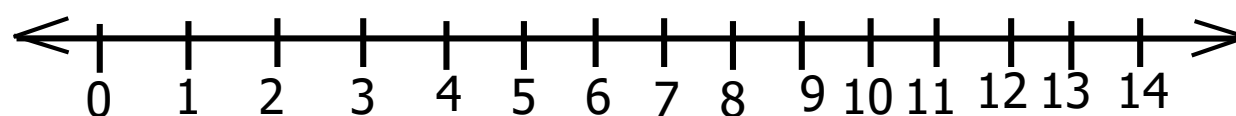(c) a x b − c (02 Mark)

7   **Turn Over**

24. Using a pair of compasses, a ruler and a sharp pencil only, construct an Isosceles triangle **ABC** where line **AB** =6cm and $\overline{BC} = \overline{AC}$ = 8cm.

(05 Marks)

25. (a) Represent **4 x 3** using the numberline below. (02 Marks)

(b) A frog jumped 6 steps forward and 4 steps backwards. Show where frog stopped on the numberline below.

(02 Marks)

26. (a) Given that the hour hand of clock face rotates 24 times in a day. For how many days will the hour hand of the clock rotate for 216 times?

(03 Marks)

(b)   Darren was told to serve the baby with milk every after 2½ hours. If he served the baby at 1:30p.m. At what time will he serve the baby with milk again?   (03 Marks)
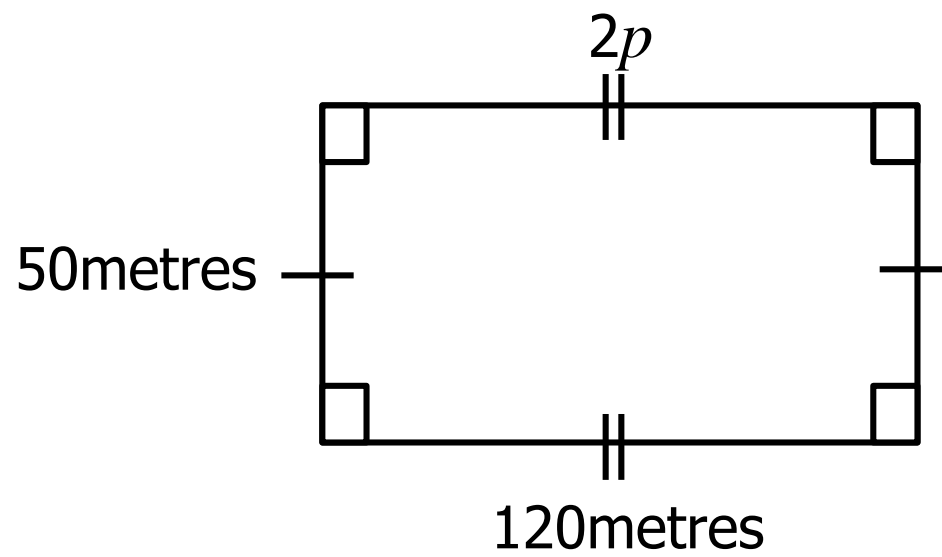
27.   The graph below shows the weight of five boys in P.5 at Twalibah Islamic Primary School.

(a)   How many kgs does Otim weigh than Paul?   (02 Marks)

(b)   Calculate the total weight of the five boys.   (03 Marks)

Turn Over

28. The figure below represents Mr.Mboona's rectangular plot of land. Use it to answer the questions that follow.

$$2p$$

50metres

120metres

(a) Find the value of p in metres. (02 Marks)

(b) Workout the area of Mr.Mboona's plot in metres. (02 Marks)

(c) Mr.Mboona was told to find the perimeter of his plot if he wanted to know the length of barbed wire to use in fencing the land, how many metres of barbed wire did he buy? (02 Marks)

29. Patrick distributed his 360 cows among his three children as follows,

  - Sandra got $\frac{1}{4}$ of the cows.
  - John got $\frac{2}{3}$ of the cows.
  - Ema got $\frac{1}{6}$ of the cows.

   (a)   Find the number of cows Sandra and Ema got altogether? (03 Marks)

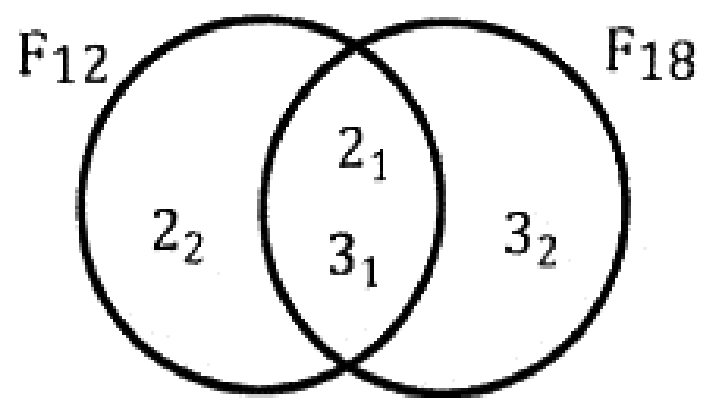   (b)   How many more cows did John get than Sandra?   (02 Marks)

30. (a)   Workout: $2\ 1\ 3_{four}$ (02 Marks)
                          $+\ 2\ 2_{four}$
                          _____

     (b)   What is the place value of 2 in 1243_{five}?   (01 Mark)

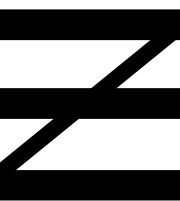   (c)   Convert 1011_{two} to base ten.   (02 Marks)

Turn Over

31. The Venn diagram below shows Prime factors of 12 and 18. Use it to answer the questions that follow.

(a) Workout the GCF of 12 and 18 using the above Venn diagram.

(02 Marks)

(b) Find F_{12} U F_{18}. (02 Marks)

32. (a) Muslims pray five times a day. How many prayers does a Muslim pray in a leap year of 366 days? (02 Marks)

(b) Okello was born on 1st January, 1989 and died on 31st December, 2022. How old was he when he died? (02 Marks)

END