VICTORY STEP EDUCATION SERVICES - KAMPALA

EXAMINATIONS 2024

P.7 MATHEMATICS PUPIL'S INTERVIEW

Time Allowed: 2 hours 30 minutes

Pupil's Name: ……………………………………………………………………………………………….

Previous school name: …………………………………………………………………………………...

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.

2. All the working for both sections **A** and **B** must be shown in the spaces provided.

3. All working must be done using a blue or black ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.

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

5. Unnecessary changes of work may lead to **loss** of marks.

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

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

1. Work out: 12 ÷ 3.

2. Simplify: 3m + 4k + 4m + k.

3. Find the next two numbers in the sequence.

   1, 3, 6, 10, _____, _____

4. Write 99 in Roman numerals.

5. Given what X=6, y=4 and z= 3. Work out the value of $\dfrac{4(x+y)}{z}$

6. Which number has been expanded to give?

   3000 + 40 + 5

7. Given that Set

    B = { a, b, c}

    A = { f,a,h}

    find n(A n B).

8. Simplify ‾2- ‾3.

9. Shade $\underline{8}$ of the drawing below.

      10

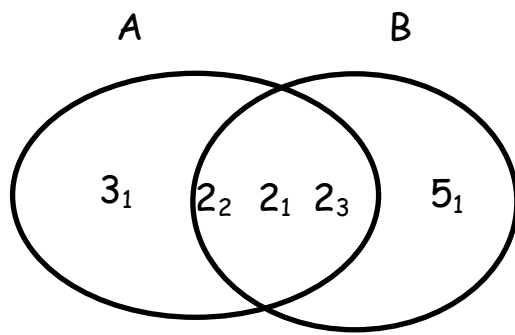|				

10.   Work out the median of 10, 3, 6, 2, 5, 1 and 3.
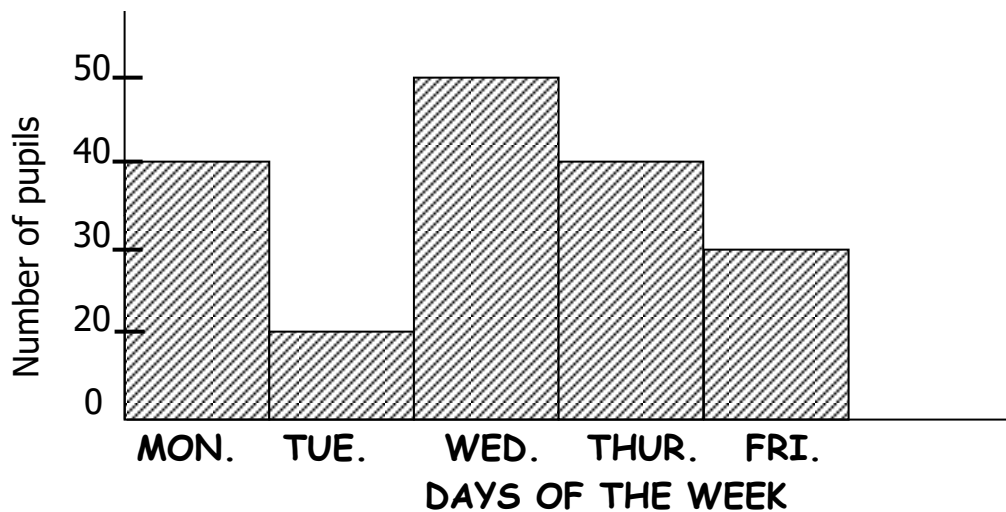
11. Change 101_{two} to decimal base.

12. Round off 149 to the nearest tens.

13. Find the square of 6.

14. A car moved a distance of 100km in 4hours. Calculate its speed.

15. Write 1998 in words.

16. A church service which took 1 hour and 45 minutes ended at 12:00noon. When did it begin?

17. Ronaldo bought a radio at sh.24,000 and sold it to Messi at sh.30,000. Calculate his profit .

18.   Use Venn diagram below to find the LCM of A and B

A   B

3_1 2_2 2_1 2_3 5_1

19. **The graph below shows the attendance of grade six class in a certain week.**

Number of pupils

50

40

30

20

0

MON.   TUE.   WED.   THUR.   FRI.
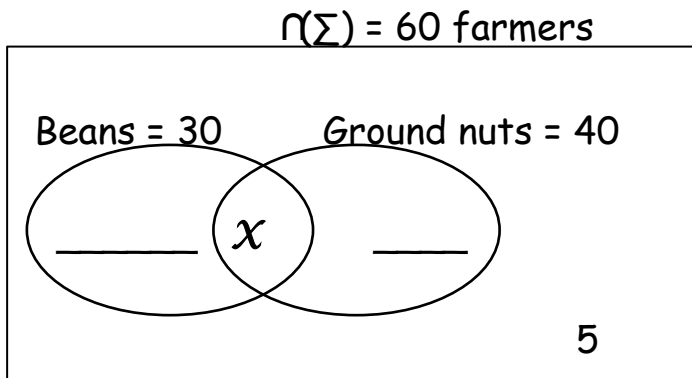
DAYS OF THE WEEK

On which **2** days was the attendance the same?

20.A tailor had a piece of cloth 144m long and he cut into smaller pieces of 12m each, How many pieces did she get?

SECTION B (60 MARKS)

21.**The Venn diagram below shows the number of farmers who grow Beans and Ground nuts in Kasese district. Use it to answer the questions that follow.**
(2 marks)

$n(\Sigma)$ = 60 farmers

Beans = 30   Ground nuts = 40

_____ x ___

5

a) Find the value of x.   (3marks)

b) How many farmers grow Ground nuts?   (2marks)

22. During a tour in Western Uganda, Mr. Okot plans to buy the following items for break fast and lunch.

   2kg of sugar for sh. 4400 per kg.

   5kg of meat for sh. 6000 each kg.

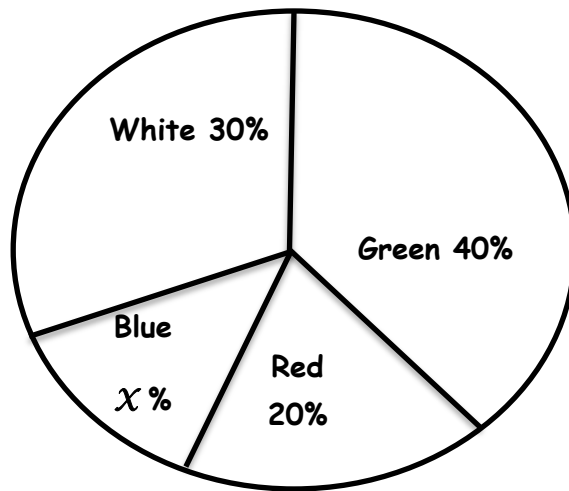   3 kg of rice for sh. 3600@kg.

 a) What will be Mr. Okot's total expenditure?   (4marks)

   b)If he plans to go with sh. 30,000 for shopping. How much will be his balance?
   (2marks)

23. Three children Sarah, Sandra and Allen were given sh. 900,000 to share in the ratio 2:3:5 respectively. How much did each child get?

                                                              (6 marks)

24. **60 pupils of Kibuku P/s were asked to choose colours and the results were entered in a circular graph below.**
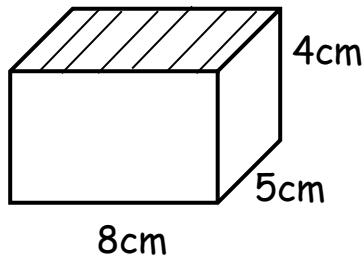
White 30%

Green 40%

Blue

Red

x %

20%

(a) What percentage represents blue colour? (2marks)

b) How many pupils chose white colour? (2marks)

(c) How many more pupils chose white than red? (2marks)

25. Using the instruments like a pencil, a ruler and a pair of compasses, construct an equilateral triangle of sides 7cm   (4marks)

26.**Study the diagram below and use it to answer questions.**

4cm

5cm

8cm

(a)   Find the **volume** of the figure.   (3marks)

(b)Calculate the area of the **shaded part**.

                                               (2 marks)

27.Tom scored the following marks in a series of tests. 40, 65, 50, 30, and 45.
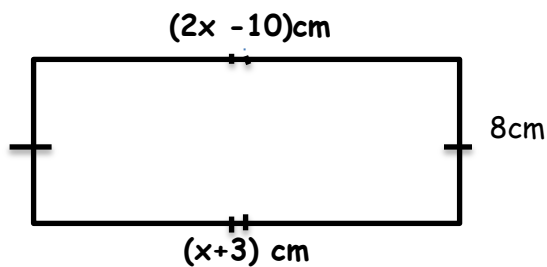
(a)Find his **median mark**.   (2marks)

(b)Work out his **mean mark**.   (2marks)

(c)What was the **range** of his score?   (1mark)

28.Use the rectangle below to answer the questions that follow.

(2x -10)cm

8cm

(x+3) cm

(a)Find the value of x.   (2marks)

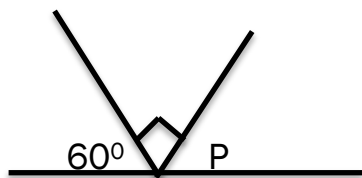(b)Calculate the **length** of the rectangle.   (1mark)

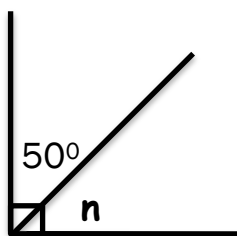(c)Work out the area of the rectangle.   (2marks)

29.The sum of the magic square below is the same vertically, and horizontally,
Find the values of a, b, c, d and e.   (5 marks)

a	b	13
12	16	c
19	d	e

30. **Find the value of the unknown angles.**

(2 marks)

60^0 P

(2 marks)

50^0
n

31. (a) A motorist left Kampala at 9:45a.m and reached Mukono at 10:55a.m. How long did the motorist take on the way?   (2marks)

(b) A car travelled for 4 hr from Kampala to Ntoroko district at an average speed of 84km /hr. What distance did the car cover? (2marks)

32.In a class of 150 pupils, $\frac{2}{5}$ of them are girls and the rest are boys.

a) Find the fraction for boys.   (1mark)

b) How many girls are in the class?   (2marks)