



DIVINE EDUCATION CENTRE  
**MID TERM 2 EXAMINATION 2024**  
MATHEMATICS – P.6

***Time Allowed: 2hrs 30min***

Name:.....

Stream: .....

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both  
Sections **A** and **B** must be written in the spaces  
provided.
5. All answers must be written using a blue or black  
ball point pen or ink. Diagrams should be drawn in  
pencil.
6. Unnecessary alteration of work may lead to loss of  
marks.
7. Any handwriting that cannot be easily read may lead  
to loss of marks.
8. Do **not** fill anything in the boxes indicated for  
Examiner's use only.

**FOR EXAMINER'S USE ONLY**

Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 22		
23 – 24		
25 - 26		
27- 28		
29 - 30		
31 – 32		
TOTAL		

***Turn over***

1- Workout: 
$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

2- Write 9,048 in words.

3- Simplify:  $-6 - -1$

4- Given that  $K = \{\text{prime even numbers}\}$   
Find  $n(K)$

5- Find the sum of the next two numbers in the sequence.

1, 3, 6, 10, 15, \_\_\_\_\_, \_\_\_\_\_


6- Use:  $>$ ,  $<$  or  $=$  to complete the statement below.

12 items \_\_\_\_\_ a score.

7- Change 1.5 metres into centimetres

8- The cost of 3 books is sh. 12,000. Find the cost of five similar books.



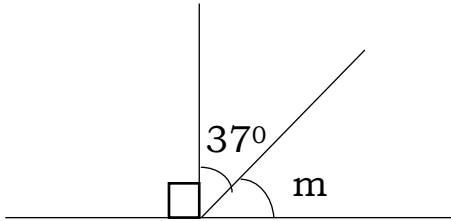
9- Given that  represents 7 trees. Draw pictures to represent 42 trees.

10- Using a pair of compasses and a ruler, construct an angle of  $120^\circ$  in the space provided below.

11- The average of 3, 2 and  $y$  is 3. Find the value of  $y$ .

12- Workout:  $4\frac{1}{2} - 1\frac{5}{6}$

13- Find the value of  $m$  in the figure.



14- If  $n = 3$ , find the value of  $n(\frac{n+1}{2})$

15- Round off 5974 to the nearest hundreds.

16- Mugisha went for evening prayers at the time shown on the clock face below. What time did he go for prayers?

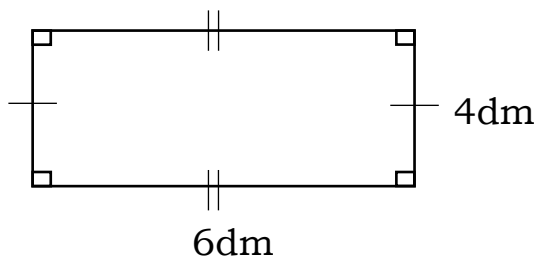


17- In a tin of 7 pens, 3 are red and the rest are blue. Find the probability of picking a blue pen at random from the tin.

18- Workout:

	M	CM
	7	10
-	2	50
	<hr/>	
	<hr/>	

19- Double the perimeter of the figure below.

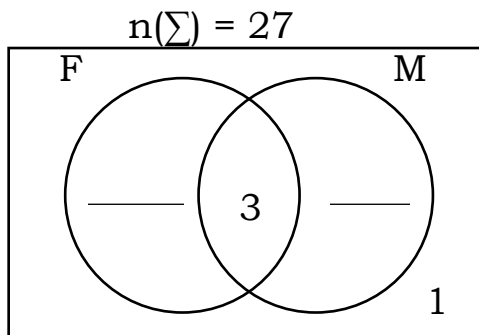


20- Think of a number, multiply it by the square of two and the result is 20. Find the number.

### SECTION B: 60 MARKS

21- At a party attended by 27 guests,  $y$  guests ate fish (F) only, 9 ate meat (M) only, 3 ate both fish and meat while 1 guest did not eat any of the two dishes.

(a) Use the above information to complete the venn diagram below. (02marks)



(b) How many guests ate fish? (03marks)

22- The sum of three consecutive odd numbers is 21. If the first number is  $k$ ;

(a) Find the largest number. (04marks)

(b) Find their range (01mark)

23- Change  $34_{\text{five}}$  to base four.

(04marks)

24- (a) Workout:  $\frac{0.9}{0.03 \times 5.0}$

(03marks)

(b)Simplify:  $\frac{3}{5} + \frac{2}{10}$  (02marks)

25- At Joy primary school, two bells for lower and upper section ring at intervals of 30 minutes and 40 minutes respectively.

(a) After how many minutes will the two bells take to ring at the same time? (03marks)

(b) If the two bells were rung together at 10:30a.m, at what time will they ring together again? (02marks)

26- Ruth was facing in the south-western direction. She turned clockwise to face in north. Through what angle did she turn? (02marks)

(b) Given that  $2m$  and  $40^\circ$  are supplementary angles. Find the value of  $m$  in degrees. (03marks)



27- Mary went to the supermarket with sh. 150,000 and bought the following items;

- 2 trays of eggs at sh.12,000 per tray
- 500gms of sugar at sh. 5,000 @ kg.
- 2  $\frac{1}{2}$  litres of milk at sh. 1,200 per litre
- 3 tins of blue band at sh. 9,000.

(a) Calculate her total expenditure.

(04marks)

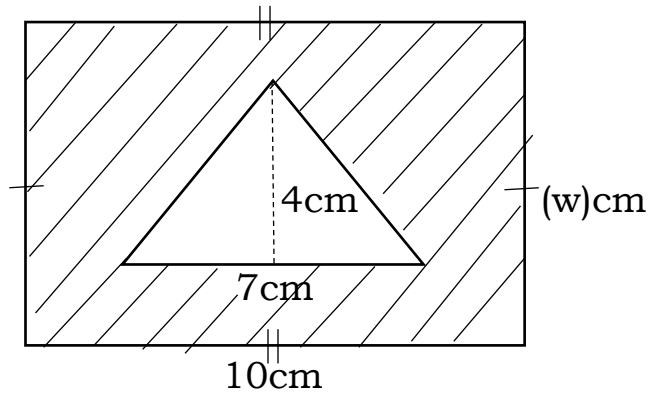
(b) Find her change

(02marks)

28- Mugisha bought a ten bucket of milk at sh. 8,000. He sold all the milk in half litre cups at sh. 600 each cup.

Calculate the profit he made after selling all the milk. (06marks)

29- Study the figure below carefully and use it to answer the questions that follow.



(a) If the perimeter of the outer rectangle is 32cm, find its width. (02marks)

(b) Find the area of the shaded region (04marks)

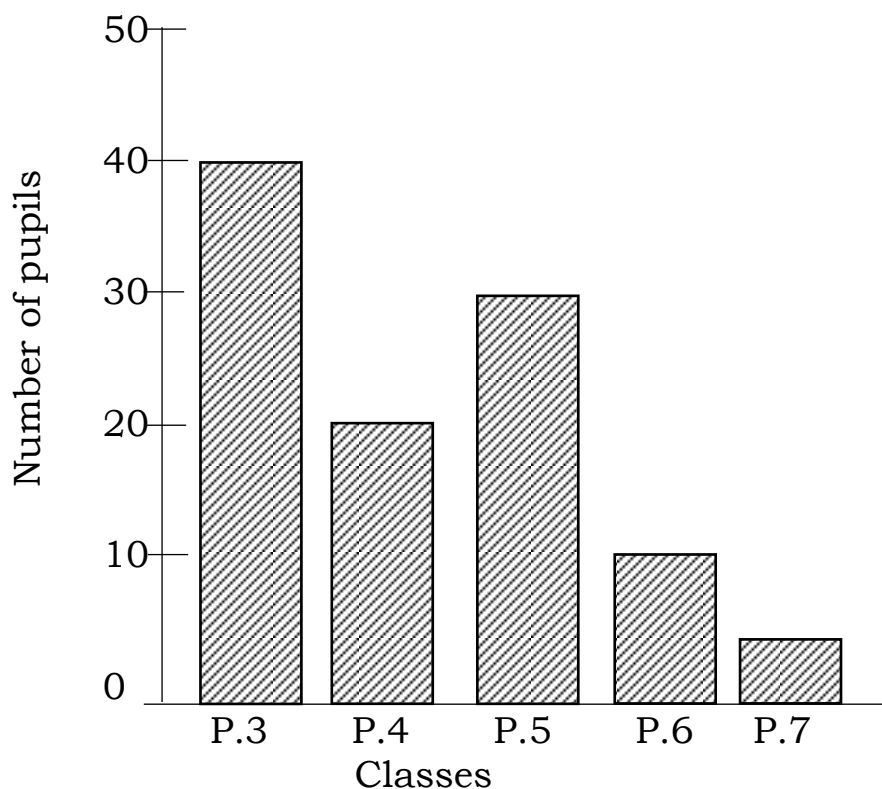
30- A bus left town P at 9:50am and reached town Q at 11:50am. The distance between the two towns is 138km.

(a) How long did the bus take to move from town P to town Q (03marks)

(b) Calculate the speed the bus used from town P to town Q  
(02marks)

31- Using a pair of compasses, ruler and a pencil only, construct an  
equilateral triangle in circle of radius 4.5cm (04maks)

32- The bar graph below represents the number of pupils without dictionaries in a certain school. Each class had a total of 50 pupils.



(a) How many pupils had dictionaries in primary four? (01mark)

(b) Which class had the highest number of pupils with dictionaries? (01mark)

(c) Calculate the average number of pupils without dictionaries (03marks)

END