

GLORY EXAMINATIONS BOARD PRIMARY SIX END OF YEAR

MATHEMATICS

2024

Time Allowed: 2 hours 15 minutes

Pupil's Name:.....
School Name:.....
District Name:.....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **16** printed pages altogether.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: "**For Examiners' use only**".

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 32		
TOTAL		

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Turn Over

SECTION A: 40 MARKS

Answer **all** the questions in this section.

Questions **1** to **20** carry **two** marks each.

1. Work out: $\frac{5}{11} - \frac{3}{11}$

2. Write in figures: "Two thousand, forty-two"

3. Work out: $-5 - -3$

4. Find the number which has been expanded to give $3000+400+5$.

5. Given that $P=\{\text{All odd numbers less than } 10\}$, find $n(P)$

6. Solve: $3h + 5 = 17$

7. Find the next number in the sequence:

7, 10, 14, 17, 21, 24, 28,

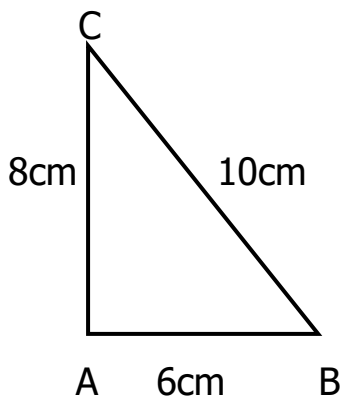
8. Work out: $20 - 10 \div 2$

9. Bruno bought a shirt from China Town at Sh. 5000 and sold it to Ntambi making a loss of Sh.2050. How much money did Ntambi give to Bruno?

10. Round off 6973 to the nearest **hundreds**.
11. In a line of doctors, Dr. Ndagga was the 20th from either side of the line. How many doctors were on the line?
12. Using a ruler, a pencil and a pair of compasses only, construct an angle of 60° in the space provided below.
13. Given that $w = 5$, $n = 4$ *and* $r = 2$, find the value of $\frac{wn}{r}$

14. Find the least number of books that can be divided by 24 or 18 girls without a remainder.
15. A cyclist travelled at a speed of 70km/h for 3h from Town A to Town B. How far is Town B from Town A?

16. Find the area of the figure below.



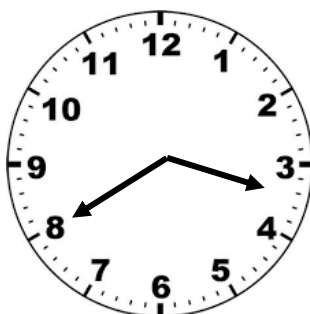
17. Write the prime factors of 54.

18. Use distributive property to work out: $(3 \times 6) + (3 \times 4)$

19. Work out:

	Kilometre	Metre
	7	900
-	<u>3</u>	<u>500</u>
	<hr/>	

20. Write the morning time shown on the clock face below.

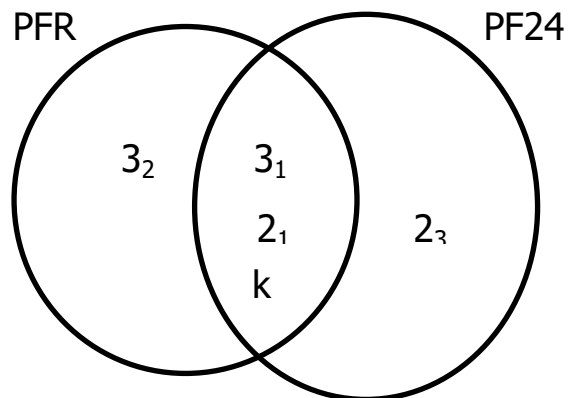


SECTION B: 60 MARKS

Answer **all** the questions in this section.

Marks for each question are indicated in the brackets.

21. The venn diagram below shows the prime factors of two numbers.



- a) Calculate the value of;

(i) K

(02 marks)

(ii) R

(02 marks)

- b) Find the largest number that divides both R and 24 without a remainder.

(02 marks)

22. A taxi and a bus were used to transport P6 pupils of Munna Primary School to their class teacher's wedding. The taxi transported 14 pupils and a bus transported 69 pupils every trip made.
- a) If the bus made 16 trips, how many pupils did it transport to the wedding?
(02 marks)
- b) The taxi transported 42 pupils to the wedding for all the trips it made. Find the;
- (i) number of trips it made. (01 mark)
- (ii) the total number of pupils the two vehicles transported to the wedding altogether . (02 marks)

23. (a) Solve: $5m - (m + 3) = 21$

(02 marks)

(b) When 4 is subtracted from y , the result is 20. Find the value of y . (02 marks)

24. The table below shows marks scored by P5 pupils in a certain test. Use it to answer questions about it

Marks	40	70	60	90
Number of pupils	4	3	2	1

(a) How many pupils did the test?

(01 mark)

(b) Calculate the mean mark of the test.

(03 marks)

25. Using a pair of compasses, a ruler and a pencil only, construct a triangle MAT, where $MA=6\text{cm}$, angle $M=90^\circ$, $MT=8\text{cm}$. *(04 marks)*

(c) Measure line TA.cm *(01 mark)*

26. Given the digits; 5,0,8

(a) Write all the 3 – digit numbers that can be formed.

(03 marks)

(b) Find the sum of the highest and lowest 3- digit numbers formed.

(02 marks)

27. In a class of 40 pupils, 27 pupils eat fish, 18 pupils eat meat, t pupils eat both fish and meat while 3 eat neither fish nor meat.

(a) Draw a venn diagram and represent the above information on it.

(03 marks)

(b) Find the value of t

(03 marks)

28. Work out $234_{\text{five}} + 112_{\text{five}}$

(02 marks)

(b) Given that $12_r = 5$. Find the unknown base **r**.

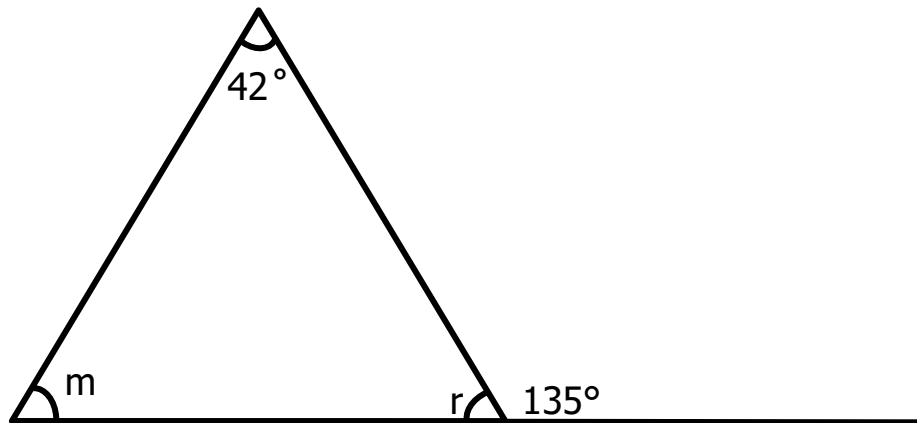
(02 marks)

29. (a) Work out: $\frac{2.4 \times 4.5}{1.5 \times 1.2}$

(03 marks)

(c) Express $0.6363\dots$ as a common fraction (*02 marks*)

30. (a) Study the diagram below and answer the questions that follow.



Find the size of;

(i) angle r .

(02 marks)

Turn Over

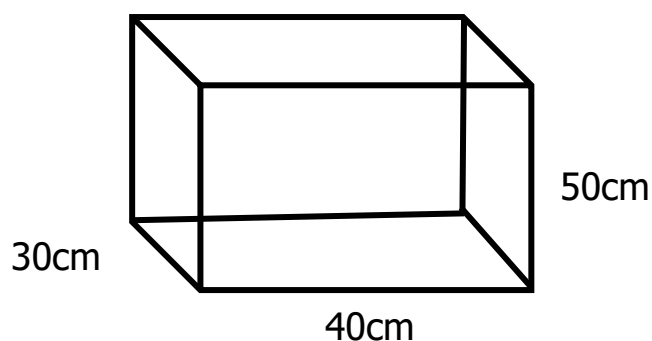
(ii) angle m.

(02 marks)

(b) Find the complement of 73° .

(02 marks)

31. The rectangular tank below measures 40cm by 30cm by 50cm? Study it very carefully and answer the questions that follow.

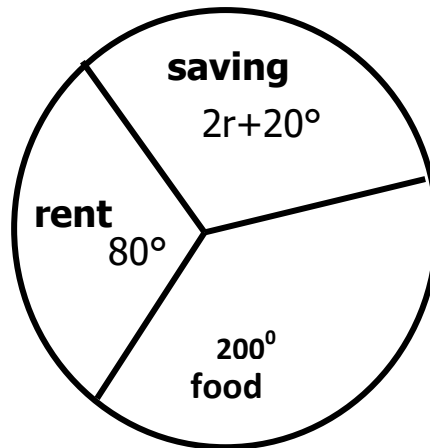


Turn Over

(a) Find the base area of the tank. (02 marks)

(b) How many liters does the tank above hold when completely full. (03 marks)

32. The pie chart below shows how Mama Sandra spends her weekly allowance of Sh. 216,000. *Study and use it to answer questions that follow.*



(a) Find the value of **r** in degrees.

(02 marks)

(b) How much more does she spend on food than on rent?

(03 marks)

END

