

CORNERSTONE JUNIOR SCHOOL

P.7 PRE- MOCK EXAMINATIONS SET TWO

MATHEMATICS TERM II 2022

Time : 2:30minutes

Candidate's name :.....Stream.....

Index No.....

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO
Read the following instructions carefully.

SECTION	MARKS
A	
B	
T	

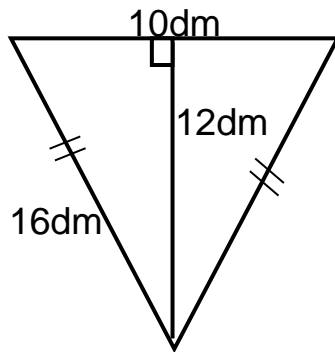
1. The paper has two sections: A and B.
2. Answer ALL questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any handwriting that cannot be easily read may lead to loss of marks

SECTION A (40 MARKS)

1. Fill in the box
 $3 + \square = 9$
2. If $k = 4$ and $r=3$. Find the value of $k^2 + r^3$.
3. Write ninety-nine in Roman numerals.
4. Adam was born in the year 2014. Express his age now in Standard form.
5. Find the next number in the sequence below.
81,27,9,3, ____
6. Write $1 \frac{2}{3}$ as an improper fraction.
7. Find the value of 4 in the number 58.074.

8. If $2^n \times 2 = 16$. Find the value of n.

9. Workout the perimeter of the figure.



10. Twenty men take 6 days to slash a school compound. How long will ten men working at the same rate to slash the same compound?

11. Increase sh.2000 in the ratio of 3:2.

12. What number has been expanded to give;
 $(8 \times 10^3) + (8 \times 10^1) + (8 \times 10^0) + (4 \times 10^{-1})$?

13. The digital clock shows 4:30pm. What time will it show after $2\frac{1}{4}$ hours?

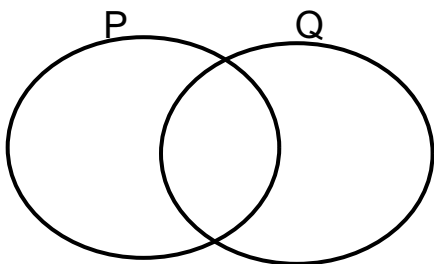
14. Find the square root of $3\frac{1}{16}$

15. The cost of 5 pens is sh.20,000. Find the cost of 10 similar pens.

16. Workout: $111_{\text{two}} + 111_{\text{two}}$.

17. Without dividing, show that 117 is divisible by 3.

18. Shade the complement of set $P \cap Q$ in the Venn diagram below



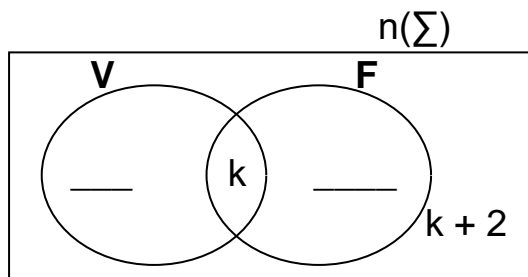
19. Workout; $+2 + +3$ using a number line.

20. In a math test, 12 pupils got a distinction one. This number is exactly 25% of the total number of pupils in the class. How many pupils are in the class?

SECTION B

21. In a class, 22 pupils play Volley ball only. K play both volley ball and foot ball (2k -10) play football but not volleyball and K-2 play neither of the two games.

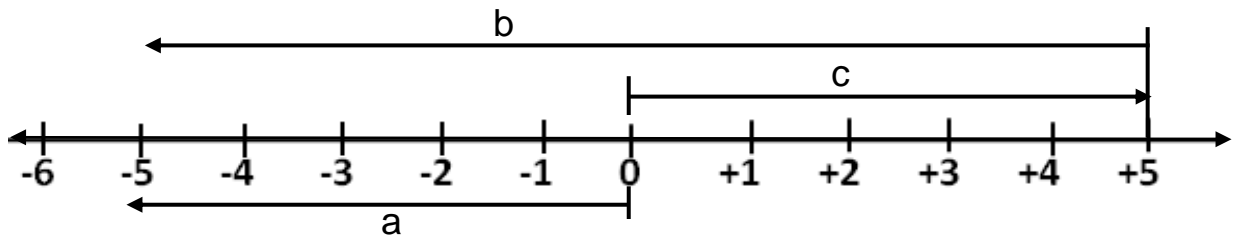
a) Complete the venn diagram below using the above information. (2marks)



b) Given that 30 pupils play football only. Find the value of k . (2marks)

c) Calculate the number of pupils in the whole class. (1mark)

22. Study the number line below and use it to answer the questions that follow



a) Write the integers represented by the arrows (3marks)

a = _____

b = _____

c = _____

b) Write the Mathematical statement for the above number line. (1mark)

23. The interior angle of a regular polygon is 100° more than the exterior angle.

a) Calculate the size of the exterior angle.

b) Workout the quotient of the place value of 9 and place value of 5. (3marks)

24. Odongo went to the market and bought the following items;

- 3kg of posho at sh.2400 per kg.
- 250g of salt at sh 2,000 per kg
- 18 mangoes at sh.2,000 for every 5 mangoes.

a) Calculate his total expenditure on the items (4marks)

b) If he was given a discount of 10% how much did he pay? (2marks)

25. a) Workout;
$$\begin{array}{r} 2 \ 3 \ 3 \text{ five} \\ + \ 2 \ 3 \text{ five} \\ \hline \end{array}$$
 (2marks)

b) Given that $34_n = 112_{\text{four}}$. Find the value of n. (3marks)

26. in his will, a man left $\frac{1}{3}$ of his money to his wife , $\frac{3}{4}$ of the remainder to his son and the balance of sh. 270,000 was left to his security guard.

a) What fraction of his money was left to his son?

b) How mach money did the man leave altogether?

27. A business man has 200 bags of wheat flour each weighing 50kg.

a) Find the total weight of all the wheat flour in tonnes.

b) If a pick-up carries 2 tonnes per trip, work out the number of trips the pick-up will make to take the wheat flour to the market.

28. Workout:

a) $\frac{0.12 \times 24}{6.4 - 6}$

(3marks)

b) Simplify: $\frac{2}{5} - \frac{2}{3} \times \frac{1}{4}$

(2marks)

29. When marking a test of 20 questions, a teacher awards 5 marks for every correct answer but deducts 2 marks for every wrong answer. If a candidate got 72 marks, how many questions did he fail? (5marks)

30. At 6:30a.m, Richard drove from Jinja to Kampala at an average speed of 60km/hr for 3 hours. He later left Kampala at 10:00am and drove back to Jinja at a steady speed of 90km/hr.
- a) How far is Kampala from Jinja?

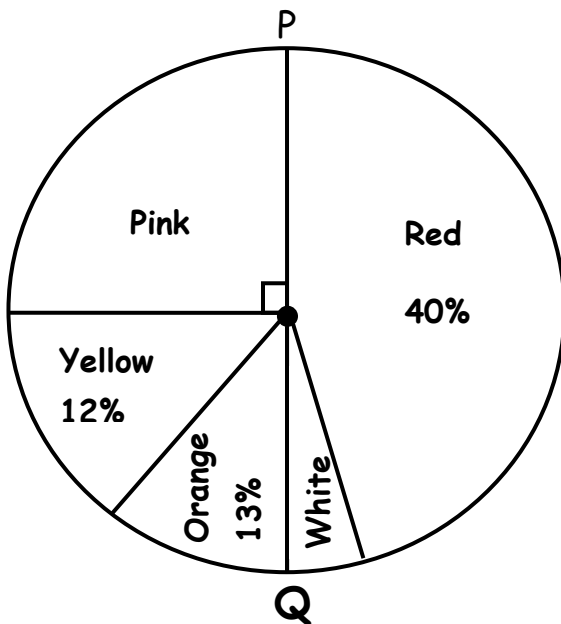
b) Workout Richard's average speed while travelling for the whole journey.

31. a) Construct a triangle ABC where angle ABC = 90 and line BC = BA = 6cm.

b) Measure angle BAC

(5mark)

32. A tourist has some roses in 5 different colours. The piechart below shows what percentage of the roses are in each colour \overline{PQ} is the diameter of the circle.



(a) What percentage are the pink and white roses?

(b) Given that there 36 yellow roses, how many roses are there altogether?

END