## HORMISDALLEN SCHOOLS

## ACADEMIC BOARD EXAMINATION (HOSABE) P.7 MATHEMATICS MID TERM 1-2024

Branch:	Stream:
INSTRUCTIONS	
1. Attempt all questions.	SECTION A
2. Any drawing must be done in per	
<ol> <li>Use a very good handwriting.</li> <li>No calculators are allowed in the</li> </ol>	SECTION B
examination room.	TOTAL
OURATION: 2 hours and 30 minutes	

## SECTION A (40marks)

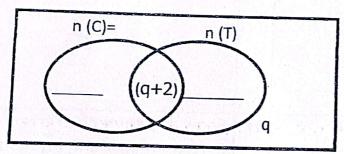
1.	Work out: 21 x 3	2.	Write <b>14049</b> in words.
3.	Study the sequence below carefully and find the sum of the next two numbers.  1, 3, 6, 10, 15,,	4.	Given that W = {s,t,r,i,c,h} and N = {o,h,m,e,c}.  Find n(WUN)
5.	Workout the range of the integers 6, 9, -4, 3, -6 and 12	6.	Given that represent to tomatoes. Draw diagrams to represent 42 tomatoes.

1	HOSABE T1- 002-2024 MATHEMATICSP.7	•
---	------------------------------------	---

13. Below are containers <b>X</b> and <b>Y</b> . 60 litres of milk in container <b>Y</b> are sold using a half litre cups of <b>X</b> .  Y  60 litres  How many cups of <b>X</b> are sold from container <b>Y</b> ?	14.	Find the circumference of a circular flower garden whose radius is 7dm. (Use $\pi$ as $\frac{22}{7}$ )
5. Express 36km/h. as m/sec.	16.	Given that $W = 2y + 8$ and $y = ^{-2}$ Find the value of $w - 2y$ .
. Twelve technicians can install electricity on a building in 10 days. How many more technicians are needed to complete the work in 8 days.	18.	Show and name the lines of folding symmetry in the figure below.

3.....HOSABE T1- 002-2024 MATHEMATICSP.7

19.	Convert 123 <sub>five</sub> to denary base.	20.	In a basket, there are 12 red pens and some blue pens. Find the probability of picking a blue pen at random if the total number of pens in the basket is 20.
	SECTION B ( (Marks for each question are	60 ma	ted in the brackets )
gr	In a group of <b>65</b> farmers, <b>42</b> farmers ops while ( <b>2q + 2)</b> farmers grow too ow neither of the two crops	erc aro	w cabbages (a.1.3) grow both
a)	Complete the Venn diagram below.		(2marks)



b) Given that  ${\bf 25}$  farmers grow tomatoes. Find the value of  ${\bf q}$ . (3marks)

22. a) Write 1011<sub>two</sub> in words.

(1mark)

b) Workout; 123five (2marks) - 4 4five

c) Given that  $2ml_{four} = 45_{ten}$ . Find the value of **m**.

(2marks)

23. a) Express **0.2525**.....as a simple fraction.

(2marks)

b) Work out:  $\frac{0.12 \times 0.48}{0.16 \times 0.4}$ 

(3marks)

- 24. Given the numeral 29045.
  - a) Write the place value of **0** in the above numeral.

(1mark)

b) Workout the sum of the value of **9** and **4** from the above numeral.

(2marks)

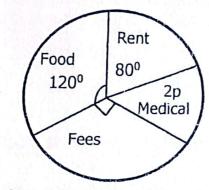
c) Write the above numeral in expanded form using values.

(2marks)

5......HOSABE T1- 002-2024 MATHEMATICSP.7

rks)
rks)
rks)
oil. rks)

27. Below is a circle graph showing how a parent spent her income of sh.360000 in a month. use it to answer the questions that follow.



a) Find the value of P.

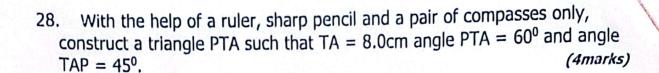
(2marks)

b) How much more money did she spend on food than medical? (2marks)

c) What percentage of her income was spent on fees?

(1mark)

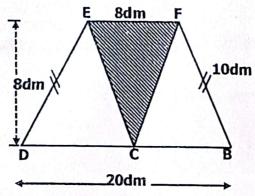
7......HOSABE T1- 002-2024 MATHEMATICSP.7



b) Measure the size of angle APT.

(1mark)

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



a) Calculate the area of the shaded figure CEF.

(2marks)

b) Work out the area of the unshaded part.

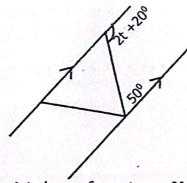
(2marks)

8.....HOSABE T1- 002-2024 MATHEMATICSP.7

30. The length of the rectangle is 5cm longer than its width. If the total distance around the figure is 34cm.
a) Work out the width of the rectangle. (3marks)

b) Calculate the area of the rectangle. (2marks)

31. a) Work out the complement of 65°. (2marks)



32. A motorist drove from town **X** town **Y** at steady speed of 60km/hr for **4** hours. He then contained to town **Z** for another period of **6** hours. Calculate the motorist average speed for the whole journey. (5marks)

END

.....HOSABE T1- 002-2024 MATHEMATICSP.7