TREASURE PREPARATORY SCHOOL
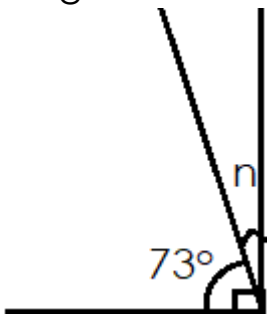## MID TERM III 2022 EXAMINATIONS
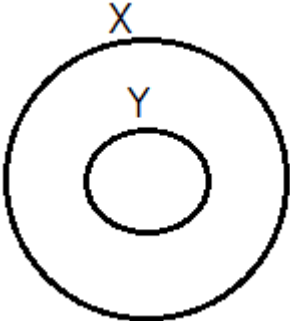## PRIMARY FIVE MATHEMATICS
Time Allowed: 2 Hours and 30 Minutes.
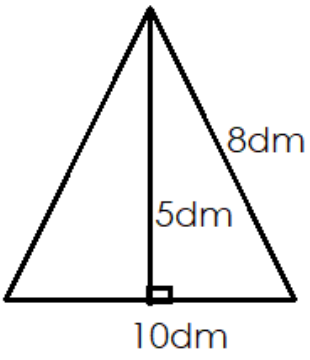
Name: _____

SECTION A (40 Marks – 2 Marks Each)

1.	Workout: $\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$	2.	If set Y = {s, w}, how many subsets are in set Y?
3.	Write: "Three hundred thousand forty-two" in figures.	4.	Workout the HCF of 27 and 36
5.	Find the missing angle in the diagram below.	6.	Simplify: 7 - ⁻2

7.	Write down the next number in the sequence: 6,8,11,16,23,_____	8.	How many lines of symmetry does a square have?
9.	Kenneth bought a cow at sh. 900,000 and sold it making a loss of sh. 100,000. At what price did he sell the cow?	10.	Expand 7,024 using exponents.
11.	Shade ¾ in the diagram below. 	12.	Tell the evening time shown on the clock face below.
13.	In the venn diagram below, shade set X. 	14.	Draw tallies to represent 32.

| 15.	Solve the equation: $3y + 8 = 32$.	16.	4 books cost sh. 2,000. Find the cost of 3 books.
17.	Change 142_{five} to base ten	18.	Find the area of the figure below. 8dm 5dm 10dm
19.	Change $\frac{17}{5}$ into a mixed fraction.	20.	Find the square root of 9.

SECTION B (60 Marks)
Marks for each question are indicated in the brackets.

21. Given that Set = {All prime numbers less than 10}, Set X = {All odd numbers less than 10}

a) List down all elements of set X. **(1 mark)**

b) List down all elements of set Y. **(1 mark)**

c) Represent the above sets on the below venn diagram. **(3 marks)**

X

Y
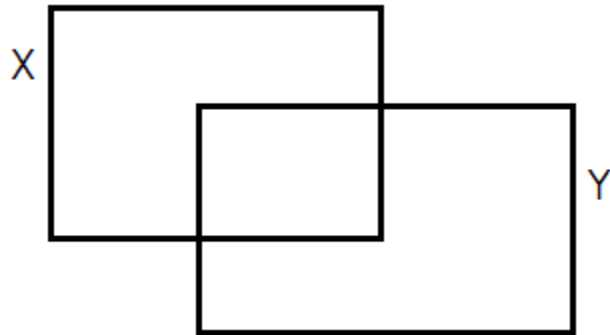
22. At a party of 500 guests, ¾ were females. The rest were males. How many more females were there than males? **(5 marks)**

23. Aron went shopping with a note of sh. 10,000 and bought the following items:
- ➤ 5 rolls of toilet paper at sh. 400 each roll.
- ➤ 3 books at sh. 1000 per book.
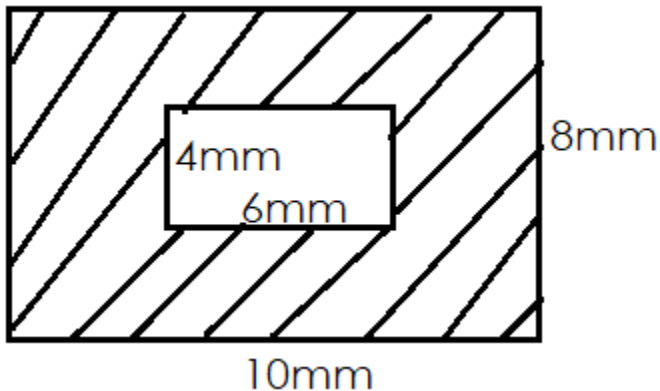- ➤ A dozen of pencils at sh. 200 per pencil.

a) How much did he spend altogether? **(4 marks)**

b) What was his change? **(1 mark)**

24. a) Using a ruler, pencil and a pair of compasses, construct a regular hexagon of side 3cm. **(3 marks)**

c) Find the perimeter of the hexagon above. **(1 mark)**

25. In the figure below, find the area of the shaded part. **(5 marks)**
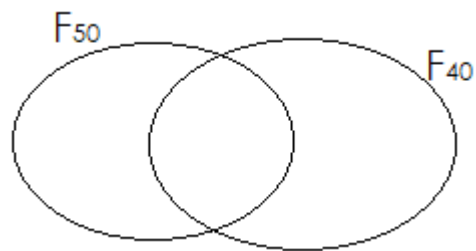

26. a) Amina was facing East. She turned clockwise through an angle of 135°. What direction is Amina facing now? **(2 marks)**

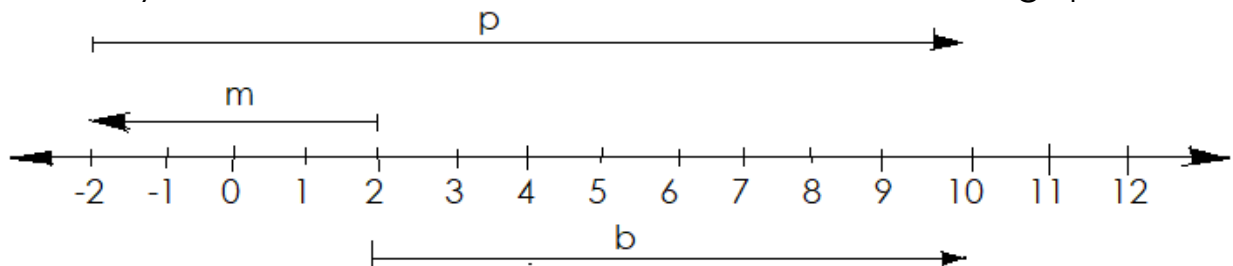b) How many right angles has a square? **(1 marks)**

27. Given the number 23,097, find the value of each digit. **(5 marks)**

28. a) Prime factorize 40 and 50, represent the prime factors on the venn diagram below. **(3 marks)**

F_{50}

F_{40}

b) Work out the Lowest Common Multiple of 50 and 50. **(2 marks)**

29. Study the number line below and answer the following questions.

p

m

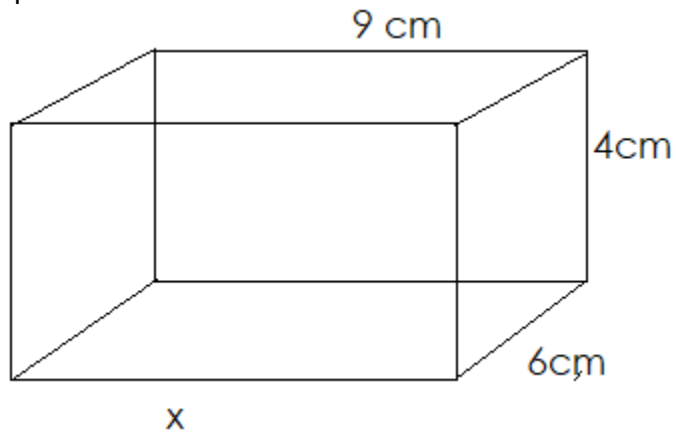-2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12

b

   a) Name the integers marked **(3 marks)**

   i) b _____ ii) m_____ iii) p_____

   b) Write down the additional mathematical statement shown on the number line above. **(2 marks)**

30. Study the diagram below and use it to answer the following questions.

9 cm

4cm

6cm

x

a)   Name the figure.
                                    (1 mark)

b)   Find the value of x
                                    (1 mark)

c) Find the volume of the figure.   *(2 marks)*

d) How many vertices does the figure have?   *(1 mark)*

31. a) Simplify: x +3x + 4y – y + x.   *(2 marks)*

b) Given that k = 9, p = 2 and r = 5, find the value of:
i) pk – r   *(2 marks)*   ii) k + r   *(2 markS)*

32. The table below shows the age of learners in P5 class at Treasure Preparatory School. Study it carefully and use it to answer questions that follow.

Name of learner	Jack	Jill	Joan	Jackins	Jenkins
Age of learner	8	12	13	12	10

a) What is the modal age of the learners?   *(2 mark)*

b) What is the average age of the learners?   *(2 marks)*

c) Find the median age of the learners.   *(2 mark)*

d) Workout the range in the age of the learners.   *(1 mark)*

END