## PRE- MOCK SET 4 EXAMINATIONS, 2024 PRIMARY SEVEN MATHEMATICS

**Duration: 2 Hours 15 Minutes** 

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## SECTION A

2. Write "four hundred sixty" in Roman numerals.
$$\begin{array}{c|c}
+00 \\
+60 \\
\hline
+60
\end{array}$$

$$\begin{array}{c|c}
+60 \\
\hline
+60
\end{array}$$

$$\begin{array}{c|c}
+60 \\
\hline
+60
\end{array}$$

3. Find the next two numbers in the sequence below.

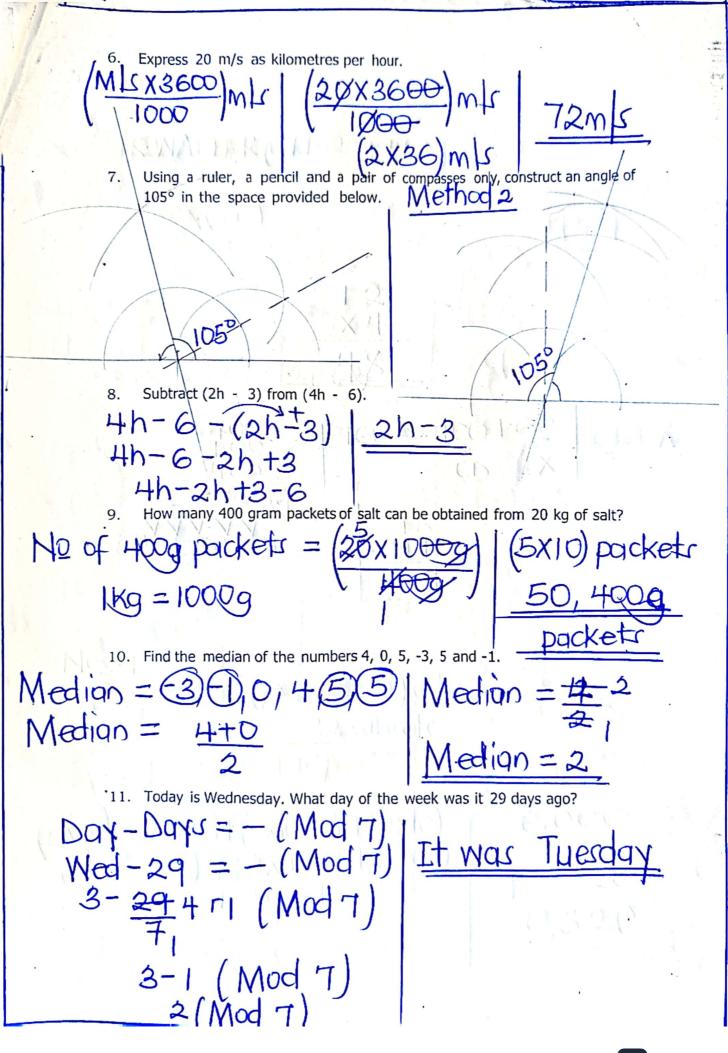
4. Given that set M = {0, 2, 4, 6, 8}. How many subsets are in set M?

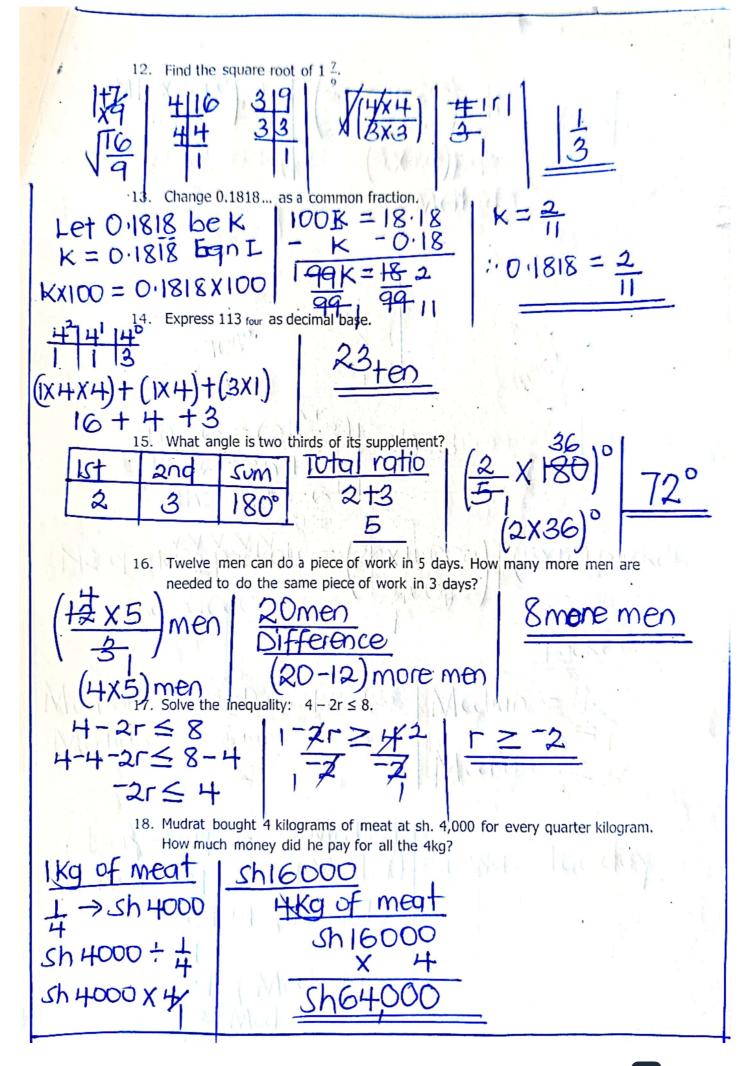
No of subsets = 
$$2^5$$
  
(2x2x2x2x2) subsets  
32 subsets

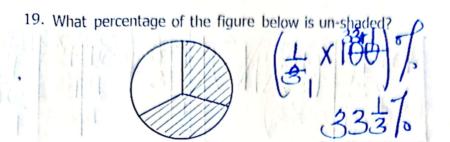
5. What number has been expanded to give;  $(5 \times 10^4) + (3 \times 10^2) + (2 \times 10^1)$ ?

$$(5\times10\times10\times10\times10)$$
 +  $(3\times10\times10)$  +  $(2\times10)$   
 $(5\times10,000)$  +  $(3\times100)$  +  $(2\times10)$   
 $50,000$  +  $300$  +  $20$ 

50,000 300 + 20 50,320







20. The graduation ceremony of Mr. Duru started at 10: 30 pm and ended at 3:00 am. How long did it last?

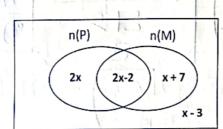
HRS	MID
1 0 %	30
01	30
11	1 1 1

Hour 30min

HRS.	MIH
13	30
4	30

**SECTION B** 

Below is a Venn diagram showing the number of boys who like mangoes (M) and passion fruits (P). Use it to answer the questions that follow.



a) Find the value of x if 23 boys like mangoes.

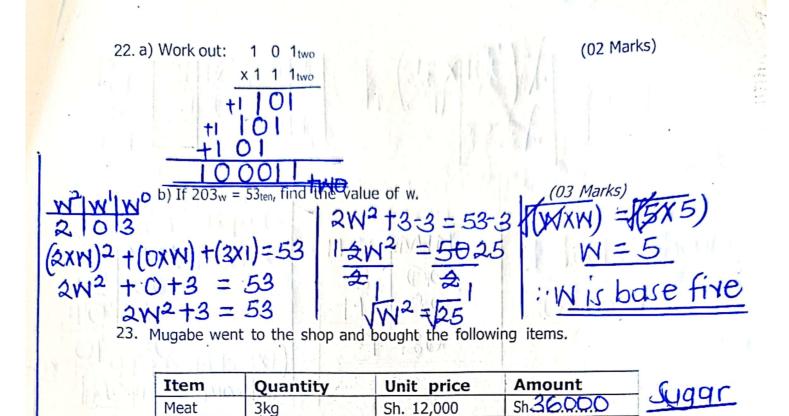
$$2X+X+7-2 = 23$$
  
 $3X+5 = 28-23$   
 $3X+5-5 = 23-5$ 

(03 marks)

$$1\frac{3X}{3} = \frac{18}{3}6$$
  
 $X = 6$ 

b) What is the probability of picking a boy at random who likes neither of the two fruits? (02 Marks)

	ic two iruits:	(3)	(02 / 10/10)
Neither	I n(≤)	Probability	¥ 41
X-3	23+3+(2/2)	n(E)	
6-3	26+@12	n(≤)	
3boxs	38 por	3	
		38	
THE ELEKTION	200 E 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Let Come de 1	



Salt

Sugar

Bread

S00g

21oaves

	T	OTAL EXPENDIT	URE Sh	1. 49,500	
				1	Sh4200
11 a)	Complete the table	e above.			(05 marks)
Meat "	Salt	Bread	Lugar	19.	
Sh12000	SK2480-2	sh9000-44	500 sh 49500	-136000	-sh49500-47400
	770	dalish	240	1900a	(h) Ini
Jh36000b)	If he went with a	fifty thousand sh	illing note, how	much wa	s his change?
	XXXX	49 10	The state of the s	4	(01 mark) ·
	Sh	BO,000	The state of the s		
	3X.123-Ch	49,500			
	do	00.500			* ·

Sh. 1,600 Sh 서200

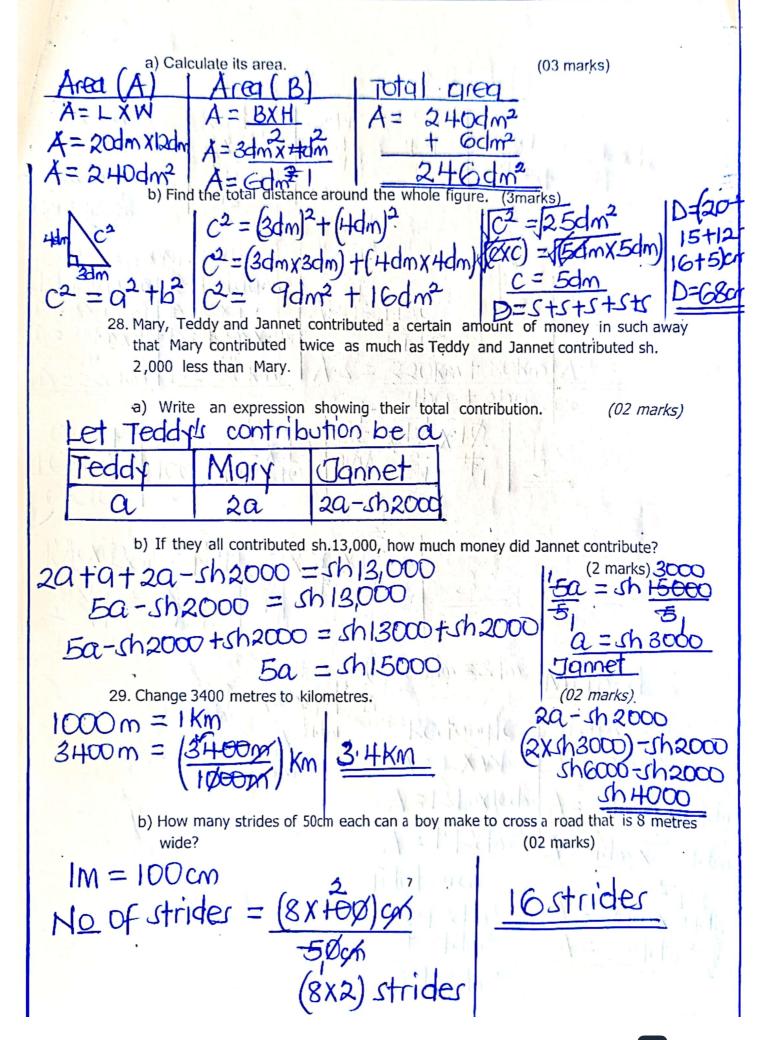
Sh. 4500

Sh. 2,400

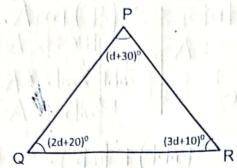
Sh. 9,000

Sh.2.1.00

24. Chekwech spends  $\frac{2}{3}$  of his monthly salary on food,  $\frac{1}{4}$  of the remainder on rent and saves sh.80,000. Calculate his monthly salary. (04 marks) Mukisa traveled at 55 Km per hour took 4 hours to cover part of his journey. The rest of the journey was covered in 2 hours at a speed of 40 Km per hou Find his average speed for the whole journey. (04 Marks) Dictance and Dutonce D=SXT D= 55km X4hr D= 40km X2hr A-S= 220Km + 80Km A-S= 50Km/h
3-9 4hrs + 2hrs (03 marks) D = 220 Km  $26. \text{ a) Work out: } \frac{0.24 + 0.12}{0.3 \times 0.4}$ (02 Marks) 3 X(2 + 2) 27. Use the figure below to answer the questions that follow. (2mrks) 15dm (15-12)dm = 3dm Method 20dm 16dm A = 12dm X 16dm  $= 192 dm^2$  $A = \frac{2}{4} \frac{dm}{x} \frac{2}{27} \frac{dm}{2}$   $A = \frac{2}{2} \frac{dm}{x} \frac{27}{27} \frac{dm}{m}$ 12dm 4= 54dm2



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



$$\angle QPR = (d + 30)^{\circ}$$
 $(20 + 30)^{\circ}$ 
 $\underline{50^{\circ}}$ 

$$\frac{6d}{6} = \frac{120}{6} = 20$$

$$\frac{d}{6} = 20$$

$$\frac{(02\text{marks})}{(02\text{marks})}$$

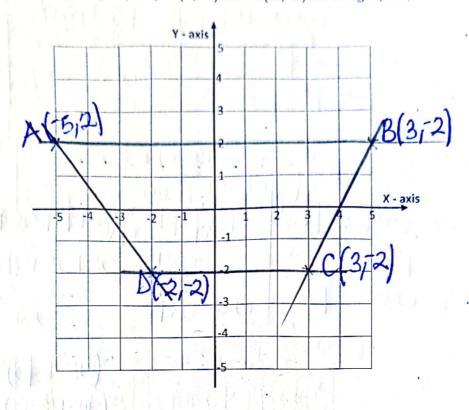
b) Peter is 16 years older than Paul now. In 8 years' time, the ratio in their age will be 3:5. How old will Paul be in 8 years' time? (02 marks)

Let Paulslage be P							
	\Paul /	Peter					
Hon	P	PH6					
In 8yea	8+q.	P+16+8					
$\frac{P+8}{P+24} = \frac{3}{5}$ $5(P+8) = 3(P+24)$							
5(P18) - 3(112) 5P+40 = 3P+72							

5p+40-40=3p+72-40  
5p = 3p+32  
5p-3p = 3p-3p+32  

$$1 \approx p = \frac{32}{2} = \frac{16}{2}$$
  
Paul in 8 years time  
 $16+8$  years = 24 years

32. Plot the points A(-5, 2), B(5, 2), C(3, -2) and D(-2, -2) on the graph. (04 Marks)



a) Join points A to B, B to C, C to D and D to A.

6 (X 2) (X 2) 16 X 6 16 Y 6 16

(01 mark)

b) Find the area of the figure formed. (02 marks)

$$A = \frac{h(a+b)}{2}$$

$$A = \frac{\text{Hunits}(5+10)\text{units}}{2}$$

$$A = \frac{2}{\text{Hunits}} \times 15\text{units} = 10$$

A = 30 sq. units

4 = 2 units x 15 units