

UNIQUE STAR EXAMINATIONS BOARD

# PRE PRIMARY LEAVING MOCK SET THREE

### 2024

### **MATHEMATICS**

Time allowed: 2 hours 30 minutes

Index No.	Random No.	Personal No.
	90,191,0171	
Candidate's n	ame: TRIFRAN	<u>C1S</u>
Candidate's s	ignature : MARKING	GUIDE
School Rando	m number: 076478228	34/0789065893:
District No. :		BY HIVE

## Read the following instructions carefully:

 Do not write your school or district name anywhere on this paper.

DIRECTOR / CEO

- This paper has two sections: A and B.
   Section A has 20 questions and section B has 12 questions. The paper has 15 printed papers altogether.
- Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
- 4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
- 5. No calculators are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
- 7. Do not fill anything in the table indicated: **"For** examiners' use only" and the boxes inside the question paper.

FOR EXAMINER'S 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 - 30			
31 - 32	1		
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.

Work out:  $42 \times 3$ 

Expand 6078 using powers of ten.

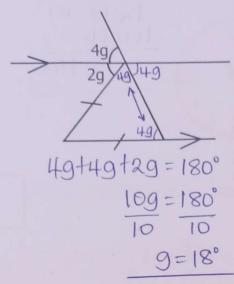
1	103	102	101	100	
	6	0	7	8	
					-7x10+8x10°

Write CDLVI in Hindu-Arabic numerals

 $\begin{array}{c}
CD - 400 \\
L - 50 \\
\hline
V1 - 6
\end{array}$ Given that P = {0, 2, 4, 6, 8, 10} and R = {4, 6, 8, 9}. 4. Find n(PuQ) PUQ={0,2,4,6,8,10,9}

Round off 4.195 to the nearest hundredth. 5.

6. Find the value of g in degrees.



7. A trader bought a dozen of cups at sh 4,800. He later sold each cup at sh 500. Find his profit.

- 8. Simplify: 4y-5e-y-e 4y-5e-e 3y-6e
- 9. Work out: 1011two + 111two

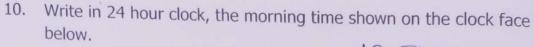
  + 10 | | two 2-2=100

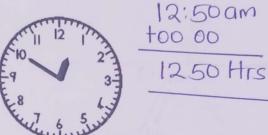
   100 | 0 two 2-2=100

  2-2=100

  3

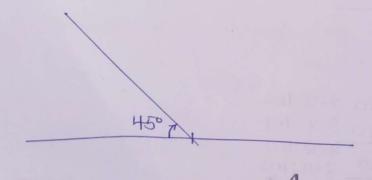
Turn Over





11. Find the sum of 
$$\frac{1}{2}$$
 and  $\frac{4}{5}$ 

13. Using a ruler, a pencil and a protractor only, draw an angle of 45°.



14. Solve the equation: 
$$\frac{p}{3} + 2p = 14$$

$$\frac{p}{7} = 42$$

$$\frac{p}{3} + 2p = 14$$

$$\frac{p}{7} = 42$$

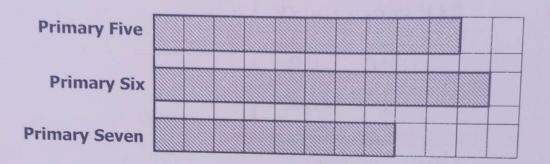
$$\frac{p}{7} = 42$$

15. Change 0.75 kilometres to metres.

16. Work out: 
$$5-6$$
 (finite 7)

17. Find the highest number of boys that can share either 18 pens or 24 pens leaving no remainder.

The graph below represents the number of pupils in different upper primary classes in a certain school. Primary Six has 24 pupils more than Primary Five. Use the graph to answer the question that follows.



Find the number of pupils in Primary Seven

Difference in P6 and P5 11 boxes - 10 boxes 1box.

No of pupils in P7 8boxes X24 192 pupils

Use distributive property to work out: (12 × 239) + (12 × 261) 12(239+261) 12(500)

6000

The number of pupils in the school last year was 1080. This year, the 20. number has decreased in the ratio of 5:9. Find the number of pupils in the school this year.

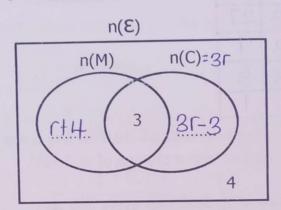
Decrease 600 pupils

### **SECTION B: 60 MARKS**

Answer **all** questions in this section.

Marks for each question are indicated in brackets.

- 21. At Mpisa Primary School, all candidates attended the leavers' party. (r+4) candidates were served with meat (M) only, 3r were served with chicken (C), 3 were served with both meat and chicken while 4 candidates were served with neither of the two dishes.
  - (a) Use the given information to complete the Venn diagram below.



(02 marks)

(b) Given that the number of candidates served with chicken only was the same as the number of those served with meat.

Find the;
(i) value of r.

3r-3=r+4+3

3r-3=r+7

3r-3+3=r+7+3

37 = 1 + 10 | number of candidates at Mpisa Primary School.

$$(744)+3+(3r-3)+4=n(2)$$
  
 $(544)+3+(3x5-3)+4$   
 $9+3+12+4$   
 $28$  candidates

(02 marks)

Turn Over

22. (a) Express 0.0802 in standard form.

(02 marks)

Write 108 as a product of its prime factors.

(02 marks)

			produce of the printer
2	-	108	n.co.co
2		54	2x2x3x3x3
3		27	
3		9	
3		3	
	1	1	

Adwaro went shopping with sh. 30,000. She bought the following items and remained with a change of sh 5,800.

 $1\frac{1}{2}$  kg of onions at sh 3,000 for every 500 g.

Some tomatoes at sh 200 each.

1250 g of salt at sh 2,000 a kilogram.

A tray of eggs at sh 9,500.

How many tomatoes did she buy? Unions

Salt  $1 \frac{1}{2} \frac{1}{4} \frac{$ 

(05 marks) Eggs sh.9500 Total expenses on Onions, salt and eggs sh. 9000 cost of tomatra + sh. 9500 sh. 9000 - sh. 5800 Sh.21000 Sh. 3200 Nooftomatoes

24. Pupils did a test and scored marks shown in the table below.

Number of pupils	5	3	4	3
Marks scored	72	80	d	90

How many pupils did the test?

(01 mark)

(b) If the mean mark was 78, find the value of d. (03 marks)

Sum of data = Mean

870t4d=1170 870-870t4dz1170-870

(72x5)+(80x3)+(dx4)+(90x3)=78

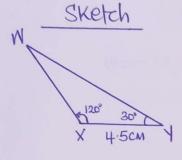
$$360+240+40+270 = 78$$

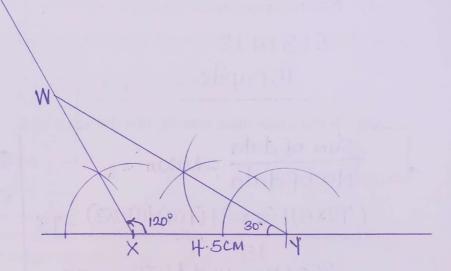
(01 mark)

Calculate the range of marks. (c)

> Kange = H-L z90-72 = 18 marks

25. (a) Using a ruler, a pencil and a pair of compasses only, construct a triangle WXY such that angle WXY = 120°, angle XYW = 30° and line XY = 4.5cm. (04 marks)





(b) Measure line WY.

(01 mark)

26. (a) Express  $\frac{5}{11}$  as a recurring decimal.

(02 marks)

(b) Simplify: 
$$\frac{0.78 - 0.48}{0.12 \div 0.8}$$
 (0.78 - 0.48)  $\div$  (0.12  $\div$  0.8)  $\frac{3}{10} \div \frac{3}{10} \times \frac{3}{10} \times$ 

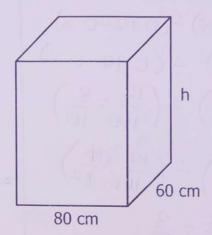
- The interior angle of a polygon is 108°.
  - (a) Find the number of sides of the polygon. Let the exterior angle bek

Kt 
$$108^{\circ} = 180^{\circ}$$
  
Kt  $108^{\circ} - 108^{\circ} - 180^{\circ}$   
K = 72°

(b) Find the number of right angles in the polygon. (02 marks) No of Fight angles = 2(n-2)

Gright angles

Eighteen 20 – litre containers fill the tank below.



Calculate the base area of the tank.

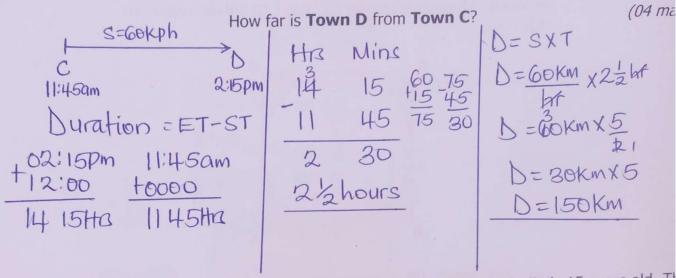
=80cmXGocm. = 4800 cm<sup>2</sup>

(02 marks)

(b) Find the value of h. 360h=360x 1000cm3 = 360,000 cm<sup>3</sup>

LXWX h = Volume (Basearea) Xh=Volume 4800cm2x h=360,000cm3 h=75cm

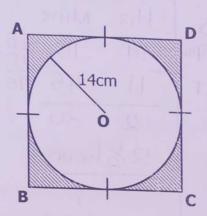
(04 marks) Capacity = 20LX18  $\frac{4860h cm^2}{4800cm^2} = \frac{360,000cm^3}{4800cm^2}$   $\frac{=360L}{1L = 1000 cm^3}$  $h = \frac{360,000 \text{ cm} \times \text{cm}}{4800 \text{ cm} \times \text{cm}}$  29. Chebet left **Town C** for **Town D** at 11:45 a.m. driving at an av speed of 60 kilometres per hour. He reached **Town D** at 2:15 p



30. Akiki is n years younger than Mbajjo. Mbajjo is 15 years old. The age of the two children is 27 years.

age of the two children is 27 7 sales	
(a) Find the value of n.	(02 mi
+n=+3	
Mbajo Akiki Total +1 +1	
15 15-0 27	
11-5	
15+15-N=27	
30-n=27	
30-30-n=27-30	16 A
-n3	(02 m
(b) How old was Akiki 5 years ago?	
Akiki's age now	
15-1	
15-3	Γ
12-learsold	
	Tu
n 5/ears ago	
12-5	
7-lear old	274

31. In the diagram below, a circle with centre **O** and radius 14 cm is enclosed in a square **ABCD**. Parts of the square are shaded as shown. Study the diagram and use it to answer questions that follow.



(a) Find length CD in centimetres.

(02 marks)

Length CD=14cm+14cm

=28cm

(b) Calculate the area of the shaded part.

(04 marks)

Area of square ABCD
A= SXS

A = 28cm x 28cm

A=784cm2

Area of a circle

A= ITr2

A= 22 X Hcm X14cm

Az 44cm x 14cm

A=616cm2

Area of the Shaded Part

784 cm²

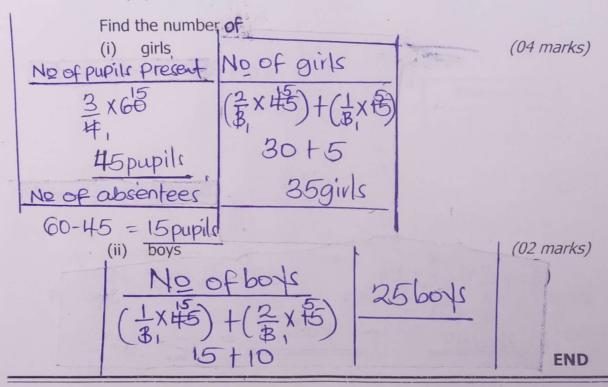
-616 cm²

168 cm²

32. The un shaded fraction in the drawing below represents the number of pupils who are absent in a class of 60 pupils.



Given that two thirds of the pupils who are present and a third of the pupils who are absent are girls.



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