P.5 END OF TERM 1

MTC GUIDE

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COMING UP

PRE- MOCK 2025 (5 SETS)

NAME:..

SCHOOL:...

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1. Divide: 27 by 3

   $27 \div 3 = \dfrac{27}{3}$

   $= 9$

   B2 for correct answer
   Long division should be allowed

   Therefore 27 ÷3= 9

2. List the first four multiples of 9.

   1X9=9
   2X9=18
   3X9=27
   4X9=36
   M9= {9,18,27,36}

   B2 for M9= {9,18,27,36}

3. Express the sum of 100 and 29 in roman numerals.

   Sum of 100 and 29 is 129
   Roman numeral 129

100	20	9
C	XX	IX

   129= CXXIX

   B1 for 129
   A1 for 129= CXXIX

4. Betty bought 5kg of sugar. How many grams of sugar did she buy?

   1kg = 1000 grams
   5kg=5x1000

   5000 grammes

   M1 for correct method
   A1 for 5000 grammes

5. Write 3,097 in words.

   Three thousand, ninety-seven

   B2 for correct answer

6. How many 0.5 liters can be got from a 30 litres jerry can?

   $(30 \div 0.5) = 30 \div \dfrac{5}{10}$
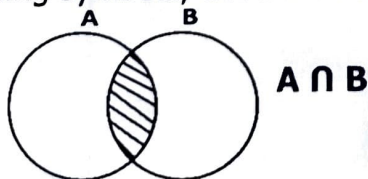
   $30 \times \dfrac{10}{5}$

   60 litres

   M1 for correct method
   A1 for 60 litres

7. Using symbols, describe the shaded part of the Venn diagram below.

   A ∩ B

   B2 for A ∩ B

8. Solve for n; *n+6 = 16*

   n + 6 =16
   n + 6-6=16-6
   n =10

   M1 for collecting like terms
   A1 for n=10

9. What number has been expanded to form **9000+700+9**?

   9000
   + 700
   **   9**
   9709

   B2 for 9709

10. Shade $\frac{2}{5}$ of the diagram below.

$\frac{2 \times 10}{5}$

2×2

4 parts

B2 for correct shading

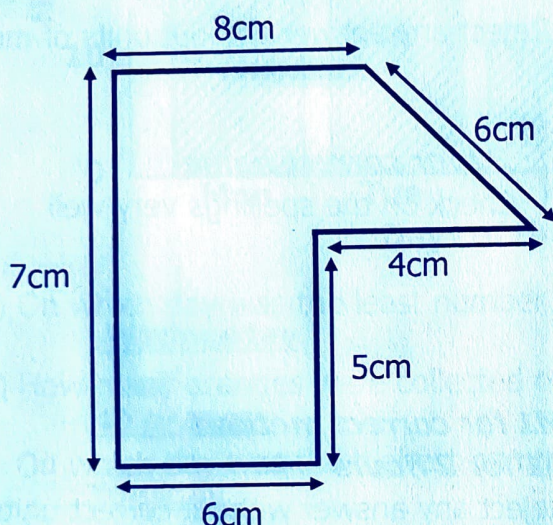11. What is the place value of **6** in 9**6**742?

TTH	TH	H	T	O
9	6	7	4	2

↓
Thousands

B2 for thousands

12. Calculate the perimeter of the figure below.

8cm
6cm
7cm
4cm
5cm
6cm

P = sum of all sides
(6 +5 +4+6+8+7) cm
36cm

M1 correct arrangement
M1 for correct sum

13. Simplify; 5 pens + 7 books + 6 pens + 3 books.

5pens + 6 pens + 7books +3books
11pens + 10books

B1 for correct arrangement
B1 for correct sum

14. If 🌳 represents 8 flowers planted in a school compound. How many flowers were

planted with 🌳🌳🌳🌳 ?

1 flower represents 8 flowers
4 flowers = (8 x 4)
32 flowers

B2

15. Find the LCM of **4** and **5**.

M4 = 4,8,12,16,20,24, ...
M5 = 5,10,15,20,25.......
LCM = 20

B1 for correct method
B1 for LCM=20

16. Round off **573** to the nearest hundreds.

H	T	O
5	7	3

```
  500
+ 100
─────
  600
```

M1 for correct method
A1 for 600

17. What integer is shown on the number line below.

+4

-1 0 +1 +2 +3 +4 +5 +6
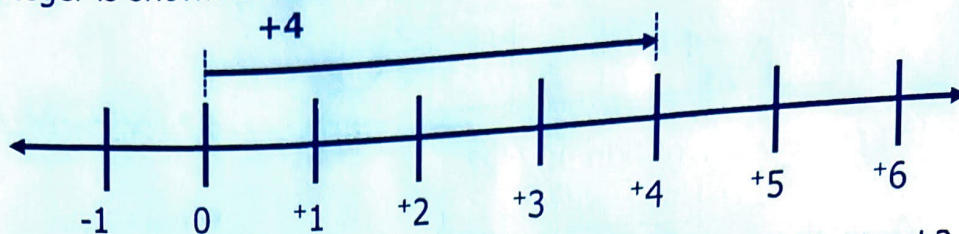
18. 6 counter books cost shs. 60,000. What is the cost of one similar book?

6books cost shs. 60,000

1 book cost shs $\frac{60000}{6}$

shs 10,000

M1 for division
A1 for shs 10,000

Reject any answer without units of money

19. Name the shape drawn below.

Cylinder

B2 for correct name
Check on the spellings very well

20. Convert 120 minutes to hours.

60 mins = 1 hour

1 min   = $\frac{1}{60}$

120 mins = $\frac{1}{60}$ x 120 hours

= 2 hours

M1 for correct method
A1 for 2 hours
Reject any answer without correct units

SECTION B (60MARKS)

21. Given the digits **3,7**, and **2**. Use the three digits to:
(a) Form smallest and biggest 3-digit numeral   *(02 marks)*

Smallest = 237
Biggest = 732

B1 for 237
B1 for 732

(b) Find the difference between the biggest and smallest numbers formed.
                                                                    (02 marks)
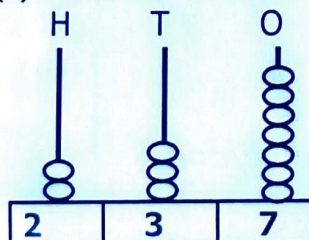
$$\begin{array}{r} 7\,3\,2 \\ -2\,3\,7 \\ \hline 4\,9\,5 \end{array}$$

M1 for regrouping
A1 for 495

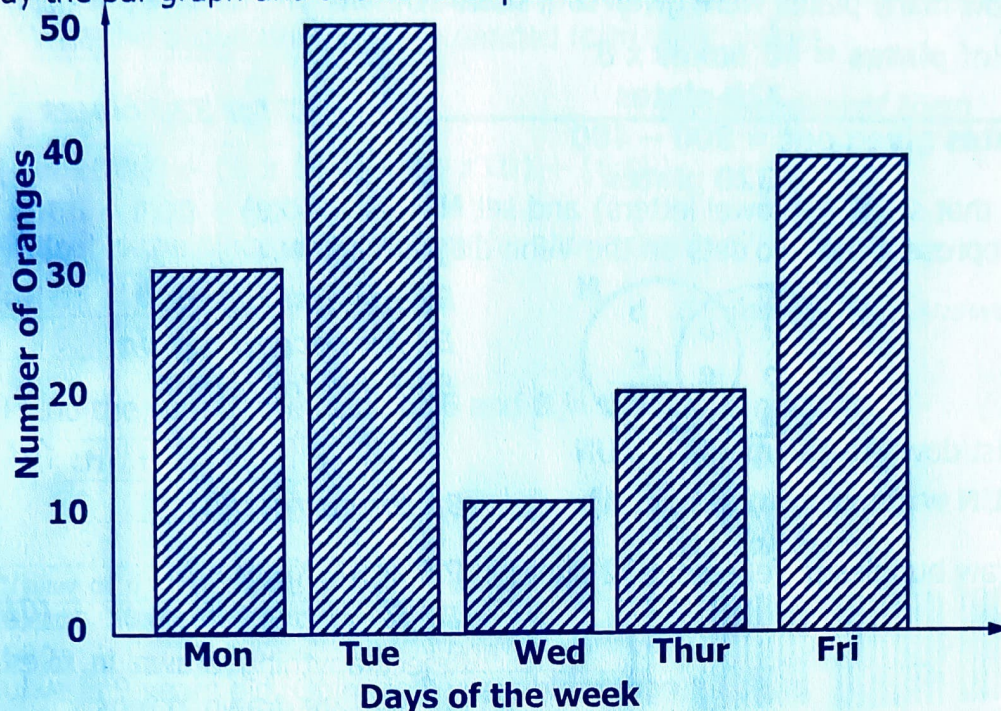(c) Show the smallest number formed on the abacus.   *(02 mark)*

H   T   O

2   3   7

B1 for correct number of beads
B1 for correct filling

22. Study the bar graph and answer the questions below.

Days of the week

(a) On which day was the least number of oranges collected?   (01 mark)

   Wednesday

(b) How many oranges were collected on Friday?   (01 mark)

   40 oranges

(c) On which day was the highest number of oranges collected?   (01 mark)

   Tuesday

(d) Find the total number of oranges collected in five days.   (02 marks)

```
    5 0
    4 0
    3 0
    2 0
  +1 0
   150
```

23. At the beginning of term one, a store keeper received 100 boxes of plates Each box had 8 plates.

   (a) How many plates did the store keeper receive?   (02 marks)

   1 box = 8 plates

   100boxes= 8 x 100   **M1 for multiplication**

   800 plates   **A1 for 800 plates**

   (b) After giving 40 boxes to a sister school, how many plates remained in the store?   (02 marks)

   Remaining plates

   100 – 40 = 60 boxes   **M1 for difference**

   1 box = 8 plates   **A1 for 480 plates**

   60 boxes = 8 x 60

   480 plates remained

5

(c) How many plates were given to a sister school? (02 marks)

No of plates = 40 boxes x 8

320 plates

B2 for 320 plates

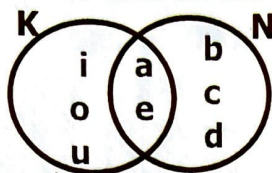**Plates given out = 800 − 480**

320 plates

24. Given that set **K** = {vowel letters} and set **N** = {a,b,c,d,e}

(a) Represent the two sets on the Venn diagram below. (03 marks)

K   N

i   a   b

o   e   c

u   d

B1 for first region

B1 for second region

B1 for third region

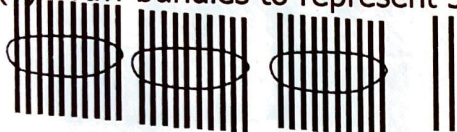(b) List down the elements of KUN (01 mark)

KUN = {a, e, i, o, u, b, c, d}   *B1 for correct list*

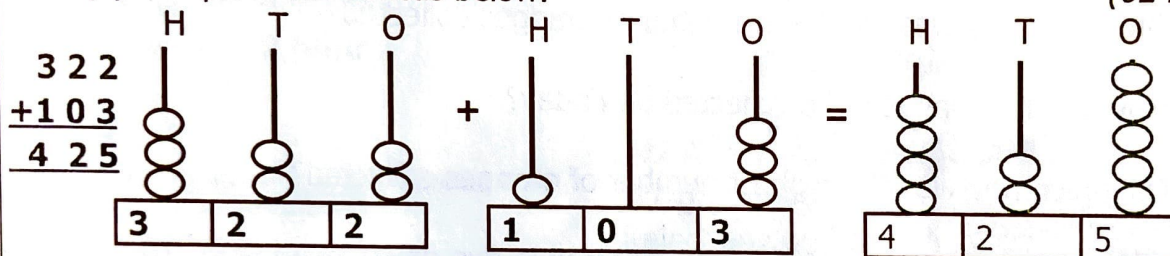25. (a) Draw bundles to represent 32 pupils in P.5 at ST. Kizito P/S.

B1 for correct answer (01 mark)

Reject anything drawn in fives because bundles are drawn in tens

(b) Complete the abacus below. (02 marks)

   H   T   O   H   T   O   H   T   O

3 2 2

+1 0 3

4 2 5

+   =

| 3 | 2 | 2 | | 1 | 0 | 3 | | 4 | 2 | 5 |

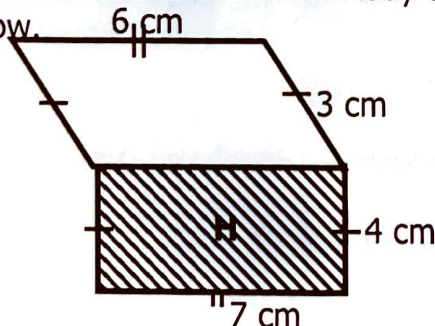***M1 for the drawing beads ----- A1 for filling numbers correctly***

(c) Subtract **4** from the number that comes after 9. (01 marks)

10 − 4 = 6

B1 for 6

26. Below are two frames **D** and **H**. study them carefully and answer the questions that follow.

6 cm

3 cm

4 cm

H

7 cm

(a) Work out the area of the shaded frame marked H. (02 marks)

A = L x W

7cm X 4cm

28cm²

M1 for correct method

A1 for correct answer

Reject any answer without correct units for area

(b) Calculate the total distance around the two frames. (03 marks)

T.D = sum of all sides

(7 + 4 +3 + 6 +3 + 4) cm

(20 + 7) cm

27 cm

M1 for correct method

B1 for collection of information from figure

A1 for 27cm

6

27. Given **4658**, answer the questions that follow.

(a) Write the above number in expanded form using values. *(01 mark)*

th	h	t	o
4	6	5	8

B1 for correct form

$(4 \times 1000) + (6 \times 100) + (5 \times 10) + (8 \times 1)$

$4000 + 600 + 50 + 8$

(b) What is the place value of **5** in the above number? *(01 mark)*

Th	h	t	O
4	6	5	8

tens

B1 for correct answer

(c) Find the sum of the value of **6** and **8** in the above number. *(03 marks)*

th	h	t	o
4	6	5	8

M1 for 600
B1 for operation
A1 for 608

Value of 6	Value of 8	sum
6x100	8x1	600 +8
600	8	608

28. Kikulwe is 9 years old. Obina is 3 years older than Kikulwe. *(02 marks)*

(a) How old is Obina?

9 + 3

12 years

B2 for 12 years

(b) Find the total age of Kikulwe and Obina. *(02 marks)*

12 years + 9 years

21 years

B2 for 21 years

(c) How old will Kikulwe be after 5 years? *(01 mark)*

9 + 5 years

14 years

B2 for 14 years

29. Below is a magic square. Use it to answer the questions that follow.

M	2	7
4	6	8
5	K	T

(a) Workout the magic sum. *(02 marks)*

Magic sum = 5 + 6 + 7

18

B2 for 18

(b) Find the value of **M, K and T.** *(03 marks)*

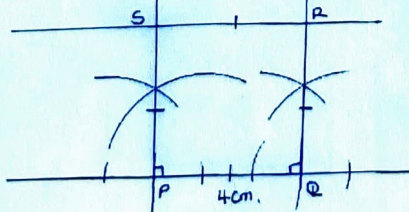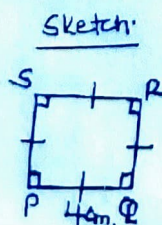| m	k	t
m+4+5=18	k+6+2=18	t+8+7=18
m+9=18-9	k+8=18-8	t+15=18-13
m=9	k=10	t=3

B1 for m=9
B1 for k=10
B1 for t=3

30. With the help of a ruler, pencil and a pair of compasses, construct a square **PQRS** of sides **4cm**. *(05 marks)*
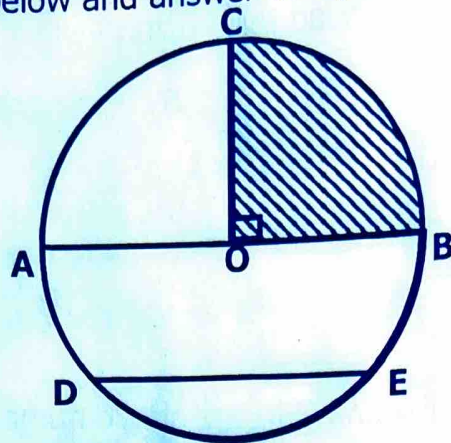
Sketch·

S1 for sketch
L1 for length PQ
P1 for correct property
C1 for construction
J1 for joining vertices

31. Study the circle below and answer the questions that follow.

(01 mark @)

(a) Name the segments labelled.

(i)	AB	**AB =diameter**	*B1 for diameter*
(ii)	OC	**OC=radius**	*B1 for radius*
(iii)	DE	**DE=chord**	*B1 for chord*

(b) Name the shaded shape.

(01 marks)

Quadrant

B1 for correct name

32. (a) Change $5\frac{1}{6}$ to an improper fraction.

(02 marks)

$$\frac{(D \times W) + N}{D} = \frac{(6 \times 5) + 1}{6}$$

$$\frac{30 + 1}{6}$$

M1 for correct method

A1 for correct answer

$$\frac{31}{6}$$

(b) Workout $\frac{3}{4} + \frac{2}{6}$

(02 marks)

LCM

2X2X3

12

$$\frac{(3 \times 12) + (2 \times 12)}{4 \qquad\qquad 6}$$

M1 for correct method

A1 for correct answer

$$\frac{9 + 4}{12}$$

$$\frac{13}{12} \quad \text{OR} \quad 1\frac{1}{12}$$

(c) Arrange $\frac{2}{7}$, $\frac{6}{7}$, $\frac{3}{7}$ and $\frac{1}{7}$ in ascending order.

(02 marks)

$\frac{2}{7}$X7 , $\frac{6}{7}$X7 , $\frac{3}{7}$X7 , $\frac{1}{7}$X7 ,

$\frac{1}{7}$, $\frac{2}{7}$, $\frac{3}{7}$, $\frac{6}{7}$,(**Ascending order**)

Or

B2 for correct order

END

$\therefore \frac{1}{7}$, $\frac{2}{7}$, $\frac{3}{7}$, $\frac{6}{7}$ (**Ascending order**)