ST CHARLES LWANGA NUR AND PRI.SCH.KAWANDA
PRE-MOCK SET ONE EXAMINATIONS, 2024
P.7 MATHEMATICS
Time allowed: 2hours 30 minutes

Index No. ☐☐☐☐☐☐☐☐☐☐ STREAM: _____
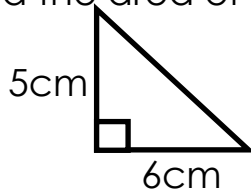
Candidate's Name: _____

SECTION A (30 MARKS)

1. Subtract: 128 - 17

2. Simplify: $5^2 \times 7^1$

3. Find the area of the figure below.

5cm
6cm

4. Write 24 in Roman numerals.

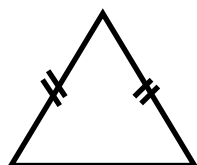**5. What fraction of the figure below is shaded?**

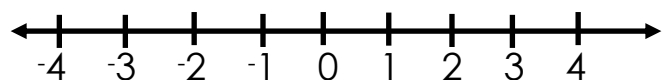**6. What is the smallest number that can be formed from digits 3, 4 , 8, 9, 2**

7. Find the missing number in the sequence.

/ , ///, //////, /////////,_____

8. How many lines of folding symmetry does the figure below have?

9. Work out $^-4 - {}^+6$ **using a number line below.**

-4 -3 -2 -1 0 1 2 3 4
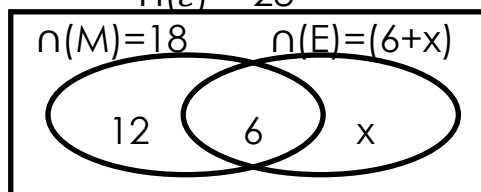
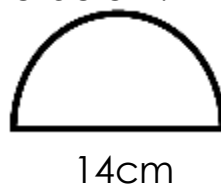| 10. Use the Venn diagram below to find the value of x.	11. Given that $\frac{3}{4}$ of the pupils in a class are girls. If the class has 25 boys. Find the total number of pupils in the class.

10. Use the Venn diagram below to find the value of x.

$\cap(\varepsilon) = 28$

$\cap(M)=18$ $\cap(E)=(6+x)$

12   6   x

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12. Work out 3 – 6 = _____ (finite 7)

13. Find the perimeter of the semi-circle below.

14cm

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14. The average age of 2 boys is 14 years. One of them is 13 years old. How old is the second one?

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15. Work out:

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    Hrs      min
     3       20
  -  1       40
  _____
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16. List down a set of the first five counting numbers .

17. Given that $(x + 20^0)$ and $(3x + 40^0)$ are supplementary angles. Find the values of X in degrees.	18. The temperature on mountain Rwenzori was -20^0c. If it rose by 5^0c, what is the temperature now?
19. Solve for y: $3y - 4 = 32$	20. Write 1489 in scientific notation.

SECTION B

21. In a group of 55 members. 27 like drama (D), 29 like music (M), 5 like neither of the two activities. While Y like both activities.

$∩(ε) = 55$

$∩(D) = $ $∩(M) = $

5
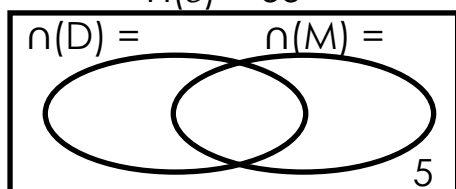
b) Find the value of y.

c) How many members like only one activity?

22(a) What name is given to a regular polygon whose one of its interior angles is 60^0?
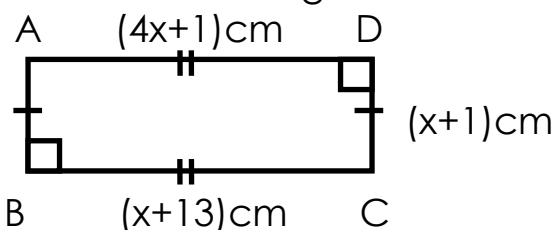
b) Find the interior angle sum.

23. Asiimwe borrowed sh.200,000 from a bank which charges a simple interest rate of 20% per year (p.a) for 6 months?

a) Find the interest Asiimwe paid.	b) How much did Asiimwe pay back at the end of the 6 months?

24. ABCD is a rectangle. Use it to answer the questions that follow.

a) Find the value of x.	b) Calculate its area.

25. In Masaka Municipality mock examinations, $\frac{1}{3}$ of the candidates obtained division one, $\frac{1}{4}$ obtained division two and the rest obtained division three. Use the above information to construct an accurate pie chart (Use radius = 3cm).

26. The time-table below shows the departure and arrival of a motorcyclist riding from Ssembabule to Kampala.

TOWN	ARRIVAL	DEPARTURE
Ssembabule		07:30a.m.
Lukaya	10.10a.m.	11.00a.m.
Mpigi	11.50a.m.	12.00 noon
Kampala	12.30 a.m.	

a) At what time does he start his journey?

b) How many stopovers does he make before reaching Kampala?

c) How long does he take to ride from Lukaya to Mpigi?

d) If Kampala is 200km from Ssembabule, calculate the cyclist's average speed for the whole journey.

27. A mother is 27 years older than her daughter. 6 years ago, their total age was 45 years.
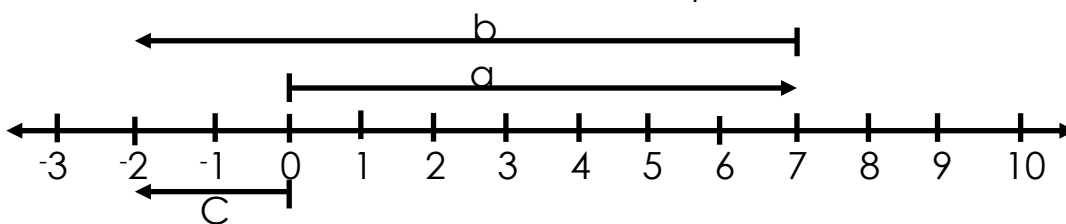
a) How old is the mother now?

b) How old was the daughter 6 years ago?

28. The sum of the 3 consecutive counting numbers is 66. If two of the numbers are 21 and 22.

a) What is the third number?	**b)** The consecutive counting numbers are x, x+1, x+2, x+3 and x+4.If their sum is 90, find the value of x.

29. Use the number below to answer the questions that follow.

a) Name arrows:

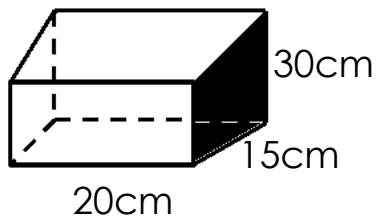i) a _____   ii) b _____   iii) c _____

b) Write the mathematical statement shown on the above number line.

30. After selling a radio at sh.48,000. John made a loss of 20%.

a) Find his buying price.
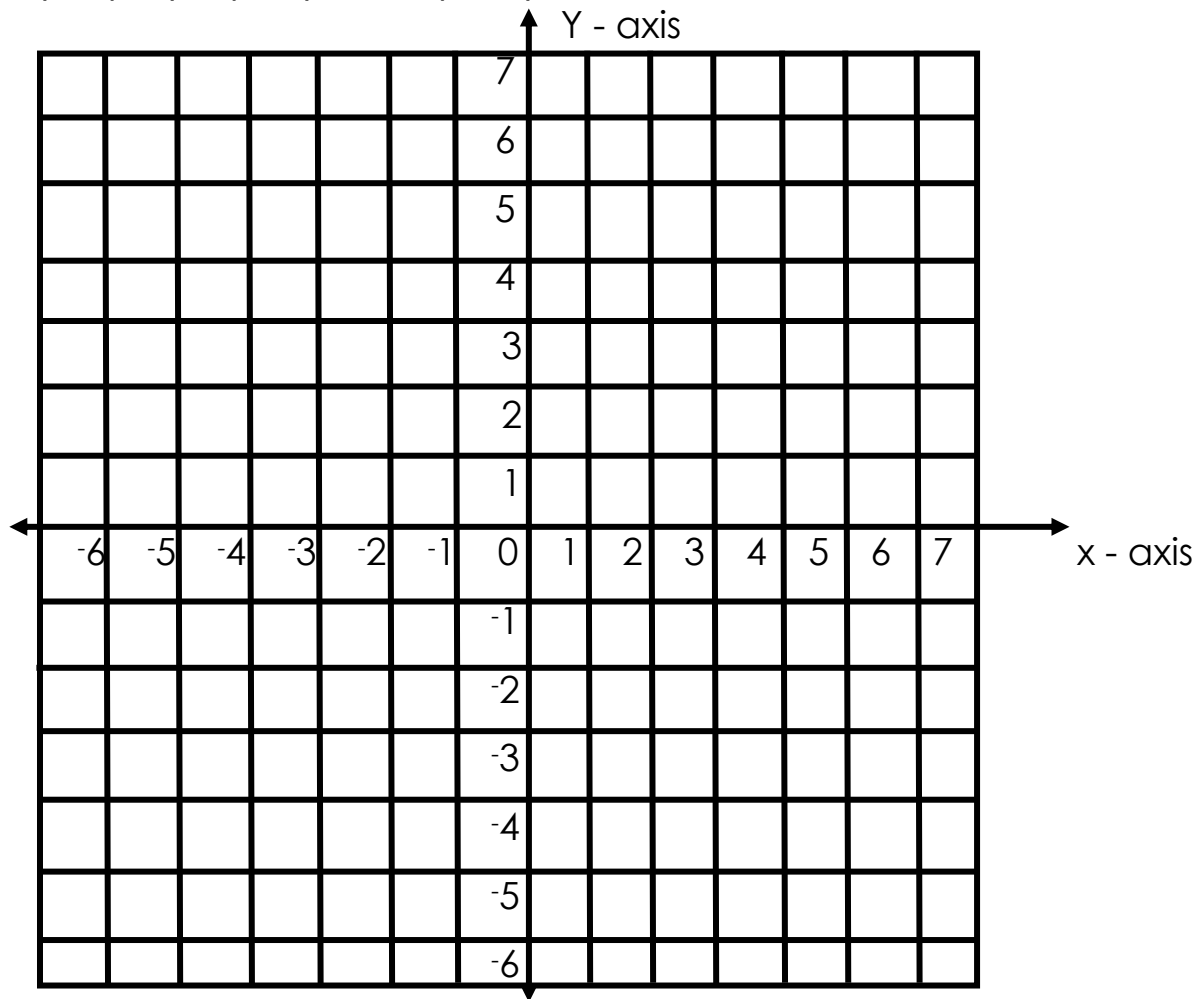
b) Calculate his loss.

31. Below is a cuboid. Use it to answer the questions that follow.

(a) Find its volume.

30cm

15cm

20cm

b) Work out its total surface area.

32(a) Use the grid below to plot the following co-ordinators:
M(-2,3), N(2,3), K(4,-1) and P(-2,-1)

Y - axis

x - axis

b) Join points M to N, N to K, K to P and P to M, and name the geometrical figure formed.

c) Calculate the area of the shape formed.