FIRST TERM EXAMINATION – 2024

C

SUMMATIVE ASSESSMENT – MATHEMATICS

K. LUCKSANA
CLASS: 7
Corporation Middle School
Shajahan nagar
Coimbatore

Marks: 60

Time: 2 Hrs.

Section – A

I. Choose the correct answer. $5 \times 1 = 5$

1. $(-12) \times (-9) =$

   a) 108 b) -108 c) +1 d) -1.

2. When the non-parallel sides of a trapezium are equal then it is known as

   a) a square b) a rectangle

   c) an isosceles trapezium d) a parallelogram

3. The generalization of the number pattern 3, 6, 9, 12… is

   a) n b) 2n c) 3n d) 4n.

4. If Mani buys 5 kg of potatoes for ₹75 then he can buy _____kg of potatoes for ₹105

   a) 6 b) 7 c) 8 d) 5

5. Vertically opposite angles are

   a) not equal in measure b) complementary

   c) supplementary d) equal in measure

II. Fill in the blanks. $5 \times 1 = 5$

6. $(-62) + (-62) =$ _____.

7. The subtraction of 5m from -3m is _____.

8. If the cost of 8 apples is ₹56, then cost of 12 apples is _____.

9. The corner of the A4 paper has _____ angle.

10. A tetromino is a shape obtained by _____ squares together.

1

III. Say True or False. $5 \times 1 = 5$

11. 1 is the additive identity for integers.
12. If x is a natural number, then $x+1$ is its predecessor.
13. Number of students in a hostel and consumption of food are not in direct proportion.
14. The supplementary angle of 70° is 110°.
15. If $5x = 15$, the value of $x = 3$.

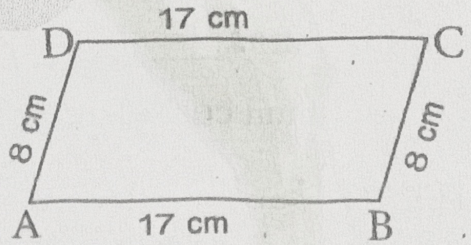
IV. Match the following. $5 \times 1 = 5$

16. In a parallelogram if all sides are equal	-	10
17. -7+17	-	$x = ky$
18. Variable in 7x+3	-	Two ray's diverge from a Common Point
19. Direct proportion	-	x
20. Angles	-	Rhombus

Section – B

V. Answer any ten questions. $10 \times 2 = 20$.
(Question no 34 is Compulsory)

21. Find the product of $(-9) \times (-8) \times (-7) \times (-6)$
22 Find two pairs of integers whose Product is 15.
23. Add the following integers using number line -3 and -5.
24. The parallel sides of a trapezium are 23 cm and 12 cm. The distance between the parallel sides is 9 cm. Find the area of the trapezium.
25. Find the perimeter of parallelogram ABCD.



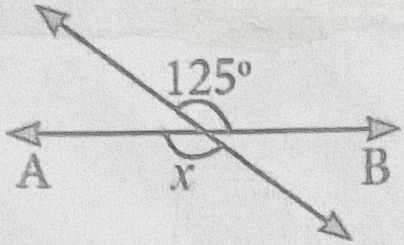
26. If P = 5, q =16 find the value of q – p.

27. Solve: $\frac{m}{6} = 5$

28. Add the following: 5k + 8, 11 + 28k.

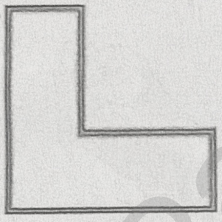
29. If the cost of 7kg of onions is ₹84, find the cost of 3kg of onions.

30. Find the value of x



31. If c = kd, find k when c = 30 and d = 6.

32. Tetrominoes. find the rotation of 360° Tetrominoes.



33. One angle of a linear pair is a right angle. what can you say about the other angle.

34. Find the value of (7 × - 5) - (-5 × 7)

Section – C

VI. Answer any five questions. $5 \times 3 = 15$
(Question no 42 is compulsory)

35. Find the value of (-90) - (-50)

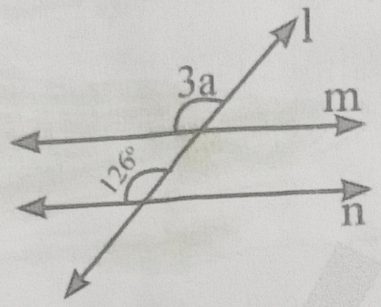
36. Find the product of (-30) × (-70) × 15.

37. Suresh won a parallelogram shaped trophy in a state level chess tournament. He knows that the area of the trophy is 735 sq.cm and its base is 21 cm. What is the height of that trophy.

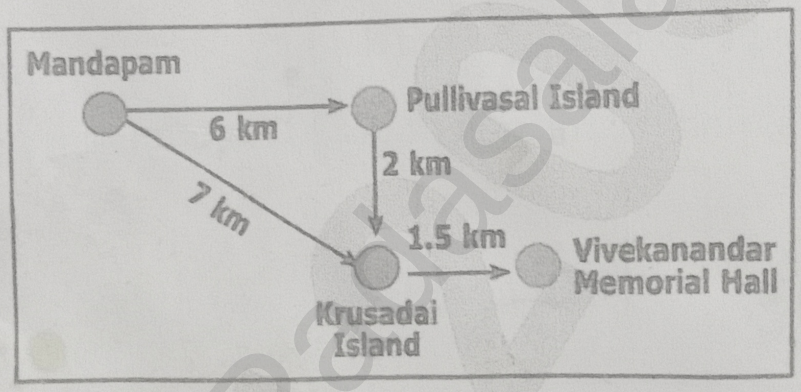
38. Solve the equation: $3x + 5 = x + 9$

39. A toy company requires 36 machines to produce car toys in 54 days. How many machines would be required to produce the same number of car toys in 81 days?

40. Find the value of 'a'.



41. Find the shortest route to Vivekanandar memorial hall from the Mandapam using the given map.



42. Subtract $2x - 5y$ from $4x + 3y$.

Section – D

VII. Answer the following question. **1 x 5 = 5**

43. Draw a line segment 10.4 cm. Construct a perpendicular bisector of line segment using scale and compass.

(or)

Construct the angle 100° using protractor. Draw its bisector using ruler and compass.