

R COMMON FIRST TERM SUMMATIVE EXAMINATION - 2023**Standard - VII****Time: 2.00 hrs****MATHS****Marks: 60****I Choose the correct answer:****5x1=5**

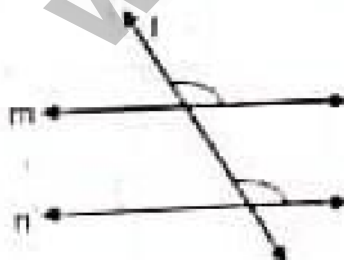
- $(-200) - 10$ is
a) 20 b) -20 c) -190 d) 210
- When the non-parallel sides of a trapezium are equal then it is known as
a) square b) rectangle c) isosceles trapezium d) parallelogram
- The addition of $3mn$, $-5mn$, $8mn$ and $-4mn$ is
a) mn b) $-mn$ c) $2mn$ d) $3mn$
- 12 cows can graze a field for 10 days, 20 cows can graze the same field for _____ days.
a) 15 b) 18 c) 6 d) 8
- Vertically opposite angles are
a) not equal in measure b) complementary
c) supplementary d) equal in measure

II Fill in the blanks**5x1=5**

- _____ $\times 75 = 0$
- The addition of $-7b$ and $2b$ is _____
- If the cost of 7m cloth is Rs 294, then the cost of 5m cloth is _____
- An angle that measure 0° is called _____
- A tetromino is a shape obtained by _____ squares together.

III Say true or false**5x1=5**

- The additive inverse of (-32) is (-32)
- Area of the rhombus is $= \frac{1}{2} \times d_1 \times d_2$ sq u.
- $x + (-x) = 0$
- Number of students in a hostel and consumption of food are not in direct proportion.
-



In the angles are corresponding angles

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5x1=5

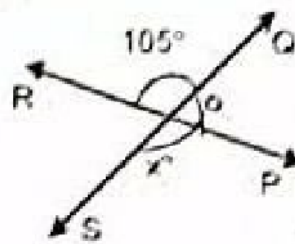
IV Match the following:

16. $(-30) - (+50)$ - $\frac{1}{2} \times h \times (a+b)$
17. Area of a parallelogram - x
18. Area of a Trapezium - 90°
19. The variable in the expression $16x-7$ - $\frac{1}{2} \times d_1 \times d_2$
20. Right angle - (-80)

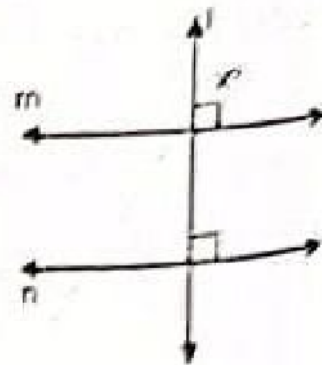
V Answer any 10 of the following questions:

10/2=5

21. i) $70 - (-40)$ ii) $(-25) \times 0 \times 45 \times 90$
22. Given $168 \times 32 = 5376$ then, find $(-5376) \div (-32)$
23. Each day, the workers drill down 22 feet further until they hit a pool of water. If the water is 110 feet, on which day will they hit the pool of water?
24. Find the height 'h' of the parallelogram whose area and base are 368 sq cm and 23cm respectively.
25. Find the area of rhombus whose base is 14cm and height is 9cm.
26. Find the value of $3m+2n$ given that $m=2$, $n=-1$
27. Solve $7x+10=80$
28. Anbu bought 2 note books for Rs 24. How much money will be needed to buy 9 such notebooks?
29. 10 farmers can plough a field in 21 days. Find the number of days reduced if 14 farmers ploughed the same field?
30. From the given figure,
Find the missing angle (x°)



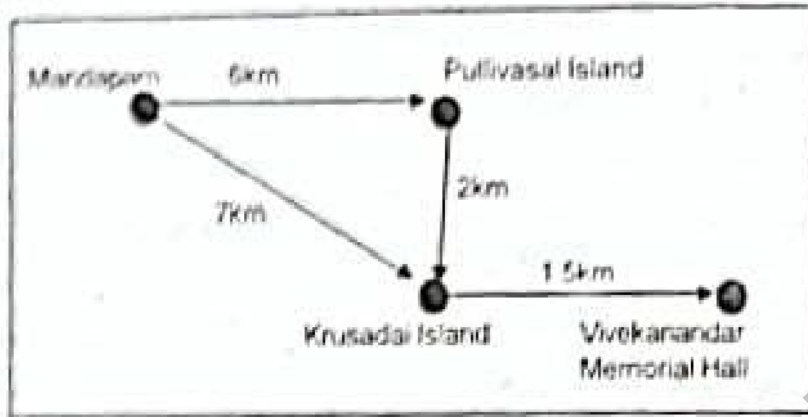
31. Find the measure of angle "x" in following figure



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- 32 Draw a tetromino which passes symmetry?
- 33 Find the shortest route to Vivekanandar Memorial Hall from the Madapam using the given Map.



34 Answer any 5 of the following questions:

5x3=15

- 34 Subtract the following using the numberline: $-3 - (-2)$
- 35 The collar of a shirt is in the form of isosceles trapezium. Whose parallel sides are 17cm and 14cm and the distance between them 4cm. Find the area of canvas that will be used to stitch the collar.
- 36 Simplify -
 $100x + 99y - 98z + 10x + 10y + 10z - x - y + z$
- 37 A car travels 90km in 2 hours 30 minutes. How much time is required to cover 210km?
- 38 Find the angles x° and y° in the figure shown.



- 39 Using the given tetrominoes with numbers on it. Complete the 4x4 magic square?

16
3
2
13

15	
14	7
1	

4	9	5
	6	

	10
	11
12	8

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40. i) Find the value of: $(-25)+60+(-95)+(-385)$
ii) Find the product of: $(-30) \times (-70) \times 15$

VII Answer any one of the following:

1x5=5

41. Construct a perpendicular bisector of the line segment $AB=6\text{cm}$.

(Or)

Construct an angle of measure 90° without using protractor.

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