COMMON SECOND TERM SUMMATIVE EXAMINATION-2019

8th STD | Standard VIII | MATHEMATICS | Reg.No. : | | | | | |

Time: 2.00 hours. Marks: 60

Part - A

I. Choose the correct answer: 5 x 1 = 5

1. If 48% of 48 = 64% of x =
   a) 64 b) 56 c) 42 d) 36
2. A fruit ventor sells fruits for Rs.200 gaining Rs.40. His percentge is
   a) 20% b) 22% c) 25% d) $16\frac{2}{3}$
3. Sum of a number and its half is 30 then the number is _____.
   a) 15 b) 20 c) 25 d) 40
4. The hypotenuse of a right angled triangle of sides 12 cm and 16 cm is _____.
   a) 28 cm b) 20 cm c) 24 cm d) 21 cm
5. Two numbers are said to be co-prime numbers if their HCF is
   a) 2 b) 3 c) 0 d) 1

II. Fill in the blanks: 5 x 1 = 5

6. If 30% of x is 150, then x is _____.
7. Loss or gain percentage is always calculated on the _____.
8. The value of m in the equation 8m = 56 is _____.
9. If the sides of a triangle are in the ratio 5:12:13 then it is _____.
10. The eleventh Fibonacci number is _____.

III. Say True or False: 5 x 1 = 5

11. Depreciation value is calculated by the formula $p = \left(1 - \frac{r}{100}\right)^n$
12. Sum of a number and two times that number is 48 can be written as y + 2y = 48
13. (–10,20) lies in the second quadrant.
14. In a right angled triangle, the hypotenuse is the greatest side.
15. The linear equation in one variable has only one variable with power.

IV. Match the following: 5 x 1 = 5

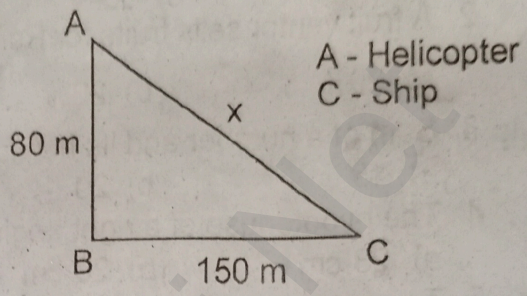
16. S.P – C.P	-	$\frac{1}{2} \times h \times (a + b)$ sq.units
17. Amount in CI	-	Hypotenuse
18. (3,–4)	-	Gain
19. Right angle triangle	-	$p\left(1 + \frac{r}{100}\right)^n$
20. Area of Trapezium	-	Second quadrant

Part - B

V. Answer any 10 questions: 10 x 2 = 20

21. If x% of 600 is 450, then find the value of x.
22. Find the difference in C.I and S.I for p = Rs.5,000, r = 4% p.a., n = 2 years
23. By selling a bicycle for Rs.4275 a shopkeeper loses 5%, for how much should be buy the cycle?
24. Solve: 2x + 5 = 9
25. The sum of three consecutive odd integer numbers is 75. Which is the largest among them?

26. Find the quadrants without plotting the point on a graph sheet.
    a) (3,–4) b) (5,7) c) (4,–3) d) (–1,–4)
27. Check whether 30, 40, 50 are the sides of the right angled triangle.
28. State the pythagorean theorem.
29. Find the HCF of 144 and 120 using repeated subtraction method.
30. The value of a motor cycle 2 years ago was Rs.70,000. It depreciates at the rate of 4% p.a. Find its present value.
31. Find p if $20 - 2(5 - p) = 8$
32. Draw the graph of $x = -7$
33. Find the difference between the helicopter and the ship.

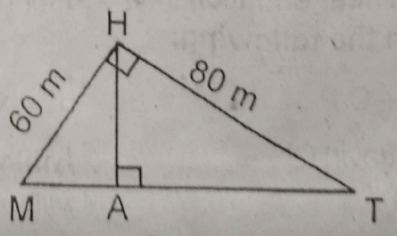


34. If $y = x + 3$, find y when $x = 3$

Part - C

VI. Answer any five of the following: 5 x 3 = 15

35. In a library 385 Maths Book, 297 Science books and 143 Tamil books are bundled equally in numbers what is the maximum numbers of books possible in a bundle for all type of books?
36. Draw the graph of $y = 5x$.
37. The length of a rectangular field exceeds its breadth by 9 meters. If the perimeter of the field is 154 m. Find the length and bredth of the field?
38. Find the CI for principal Rs.4,000, r = 5% p.a., n = 2 years interest compounded annually.
39. If the population in a town has increased from 20,000 to 25,000 in a year, find the percentage incresae in populatoin.
40. The price of a rian coat was slashed from Rs.1060 to Rs.901 by a shopkeeper in the winter season to boost the sales. Find the rate of discount given by him.
41. In the figure, find MT and AH.



Part - D

VII. Answer any one question: 1 x 5 = 5

42. a) Construct a trapezium BOAT in which $\overline{BO}$ is parallel to $\overline{TA}$, BO = 7 cm, OA = 6 cm, BA = 10 cm and TA = 6 cm. Also find its area.

(or)

b) Construct a paralleogram BIRD with BI = 6.5 cm, IR = 5 cm, $\angle BIR = 70°$. Also find its area.

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