

T**COMMON SECOND TERM SUMMATIVE EXAMINATION-2019****Standard VIII**Reg.No. :

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Time: 2.00 hours.

MATHEMATICS

Marks: 60

Part - A**I. Choose the correct answer:**

10 x 1 = 10

1. When 60 is subtracted from 60% of a number to give 60, the number is _____.
a) 60 b) 100 c) 150 d) 200
2. The price of a slipper is Rs.198. What is the marked price of the slipper if it bought at 10% discount?
a) Rs.250 b) Rs.240 c) Rs.210 d) Rs.220
3. The sum which amounts to Rs.2662 at 10% p.a. in 3 years compounded yearly is _____.
a) Rs.2000 b) Rs.1800 c) Rs.1500 d) Rs.2500
4. The value of P in the equation $\frac{2P}{3} = 20$ is _____.
a) 30 b) 20 c) 60 d) 40
5. Sum of a number and its half is 45 then the number is _____.
a) 15 b) 20 c) 30 d) 40
6. Pythagorus theorem is true for _____ type of triangles.
a) acute angle b) right angle c) obtuse angle d) all
7. If the square of the hypotenuse of an isoscles right triangle is 50 cm², the length of each side is _____.
a) 25 cm b) 5 cm c) 10 cm d) 20 cm
8. Every 3rd number of the Fibonacci sequence is multiple of _____.
a) 2 b) 3 c) 5 d) 8
9. If the word "PHONE" is coded as "SKRQH", how will "RADIO" be coded?
a) SCGNH b) VRGNG c) UDGLR d) SDHKQ
10. The number of conversion periods, if the interest on a principal is compounded every two months is _____.
a) 2 b) 4 c) 6 d) 12

II. Fill in the blanks:

5 x 1 = 5

11. 10 hours is _____ % of a day.
12. Loss or gain percentage is always calculated on the _____.
13. The linear equation in one variable has _____ solution.
14. X-axis and Y-axis intersect at _____.
15. Two numbers are said to be _____ if their HCF is 1.

III. Match the following:

5 x 1 = 5

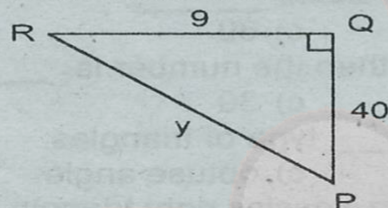
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|--------------------------------|---|----------------|
| 16. Selling price > Cost price | - | $\frac{2}{3}x$ |
| 17. Cost price > Selling price | - | (3,4,5) |
| 18. Half of a number | - | Profit |
| 19. Two third of a number | - | Loss |
| 20. Pythagorean triplet | - | $\frac{x}{2}$ |
| | - | $\frac{3}{2}x$ |

Part - B**IV. Answer any 9 questions:**

9 x 2 = 18

21. 48 is 32% of what number?

22. What is 25% of 30% of 400?
23. The price of a rain 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.
24. Some articles are bought at 2 for Rs.15 and sold at 3 for Rs.25. Find the gain percentage.
25. Find the difference in C.I and S.I for $P = \text{Rs.}5000$, $r = 4\%$ p.a, $n = 2$ years.
26. Solve: $2x + 5 = 9$
27. The sum of three consecutive odd numbers is 75. Which is the largest among them?
28. Find the value of x : $\frac{2x}{3} - 4 = \frac{10}{3}$
29. Find the quadrants without plotting the points on a graph sheet.
i) (3,0) ii) (-5,2) c) (4,-5) d) (-8,-12)
30. Can a right triangle have sides that measure 5 cm, 12 cm and 13 cm?



31. Find y .

32. Find the 8th term and 11th term of the fibonacci sequence 1,1,2,3,5,
33. Find the HCF of 144 and 120 using repeated subtraction method.

Part - C

V. Answer any 4 questions:

$$4 \times 3 = 12$$

34. If the selling price of 10 rulers is the same as the cost price of 15 rulers, then find the gain percentage.
35. If a mattress is marked for Rs.7500 and is available at two successive discounts of 10% and 20%, find the amount to be paid by the customer.
36. Mahesh invested Rs.5000 at 12% p.a for one year. If the interest is compounded half yearly, find the amount he gets at the end of the year.
37. Find m : $\frac{m+9}{3m+15} = \frac{5}{3}$
38. The sum of the digits of a two-digit number is 8. If 18 is added to the value of the number, its digits get reversed. Find the number.
39. A 20-feet ladder leans against a wall at height of 16 feet from the ground. How far is the base of the ladder from the wall?
40. Solve: $\frac{4y}{3} - 7 = \frac{2y}{5}$

Part - D

VI. Answer the following:

$$2 \times 5 = 10$$

41. a) Construct a trapezium CARD in which \overline{CA} is parallel to \overline{DR} , $CA = 9$ cm, $\angle CAR = 70^\circ$, $AR = 6$ cm and $CD = 7$ cm. (or)
b) Construct a parallelogram CAMP with $CA = 6$ cm, $AP = 8$ cm and $CP = 5.5$ cm and find their area.
42. a) Draw the graph of $y = x - 4$ (or)
b) A train runs constantly at a speed of 80 km/hr. Draw a time-distance graph. Also find the time-taken to cover 240 km.
