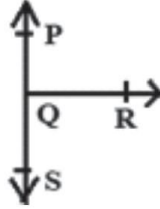


01. Find the area of triangle whose base is 22 m and height is 350 cm.
 a. 40 m^2 b. 38.5 m^2 c. 42.2 m^2 d. 44.5 m^2

02. What is the angle of PQS?
 a. 180°
 b. 90°
 c. 45°
 d. 120°



03. Which of the following statement is false?

- a. $x = \frac{7}{2}$ is the solution of $2x - 2 = 5$
 b. $p = 3$ is the solution of $p + 2 = 5$
 c. $x = 4$ is the solution of $6x + 2 = 16$
 d. $y = 7$ satisfies the equation $3y - 9 = 12$

04. A bus is moving at an average speed of $40\frac{5}{2}$ km/h. How much distance will it cover in $2\frac{4}{5}$ hours?

- a. 135 km b. 133 km c. 119 km d. 142 km

05. Arrange the following decimals in descending order.

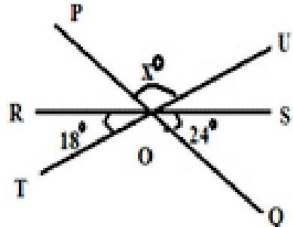
- 6.84, 6.48, 6.8, 6.08
 a. 6.84, 6.8, 6.08, 6.8
 b. 6.84, 6.8, 6.48, 6.08
 c. 6.84, 6.48, 6.8, 6.08
 d. 6.08, 6.48, 6.8, 6.84

06. Sum of two natural numbers is 80. If one number exceeds the other by 20, find the numbers.

- a. 20, 40 b. 25, 45 c. 30, 50 d. 35, 55

07. An expression is taken away from $3x^2 - 4y^2 + 5xy + 20$ to obtain $-x^2 - y^2 + 6xy + 20$, then the expression is _____.

- a. $4x^2 - 3y^2 - xy$ b. $2x^2 - 5y^2 + xy + 40$
 c. $3y^2 - xy - 4x^2$ d. $4x^2 + 3y^2 + xy$

08. On selling a refrigerator for 12,500, a man suffers a loss of $\frac{1}{6}$ of its cost price. What is his loss percentage?
 a. 12.5% b. 15.2% c. 16.7% d. 18.5%
09. What will be $a \times a \times a \times b \times b \times c \times c$ in exponential form when $a = 2$, $b = 3$ and $c = 4$.
 a. $2^3 3^4 4^2$ b. $2^2 3^3 4^2$ c. $2^3 3^2 4^2$ d. $4^3 3^2 2^3$
10. If $\left(\frac{5}{3}\right)^{-5} \times \left(\frac{5}{3}\right)^{11} = \left(\frac{5}{3}\right)^{8+x}$, then $x = ?$
 a. $\frac{-1}{2}$ b. -2 c. 2 d. $\frac{1}{2}$
11. The ages of A and B are in the ratio 3 : 5. Five years later, their ages will be in the ratio 7 : 10. Find the present age of B.
 a. 12 years b. 15 years c. 20 years d. 25 years
12. In the given figure, P-O-Q, R-O-S and T-O-U are straight lines. Find $\angle X$.
 a. 138° b. 142°
 c. 148° d. 136°
- 
13. The orthocentre, circumcentre, incentre, centroid and nine-point center are all the same point in case of an _____ triangle.
 a. Isosceles Right angled triangle b. Equilateral triangle
 c. Acute angled triangle d. None of the above
14. If the circumferences of two circles are in the ratio 13:19. Then the ratio of their areas is
 a. 196:389 b. 26:38 c. 169:361 d. 13:19
15. What will be the range of the following data?
 43, 23, 51, 35, 38, 48, 29, 37, 46, 50, 31, 28, 25
 a. 27 b. 30 c. 28 d. 26
16. The length and breadth of a rectangular field is 125 m and 285 m respectively. What will be the cost of levelling it at the rate of ₹0.2 per sq.cm?
 a. ₹647300 b. ₹579010 c. ₹712500 d. ₹853250

ANSWER KEY

| | | | | | | | |
|-----|------|------|------|------|------|------|------|
| 1 b | 2 a | 3 c | 4 c | 5 b | 6 c | 7 a | 8 c |
| 9 c | 10 b | 11 b | 12 b | 13 a | 14 c | 15 c | 16 c |