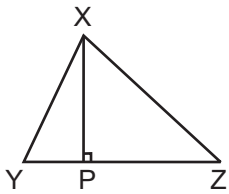


12.

In ΔXYZ , $XP = 2.5$ cm and $YZ = 5.2$ cm.Find the area of the ΔXYZ .

- A) 13 cm. B) 13 sq.cm. C) 6.5 cm. D) 6.5 sq.cm.

13. Cost of 5 mangoes is Rs. 230. Find the cost of 1 dozen mangoes.

- A) Rs. 600 B) Rs. 552 C) Rs. 550 D) Rs. 46

14. $\frac{6}{5} \div \frac{2}{15} \times \frac{10}{3} = ?$

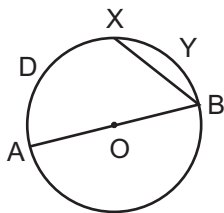
- A) $\frac{2}{5}$ B) 30 C) $\frac{1}{30}$ D) $\frac{3}{10}$

15. Fill in the blank with proper sign :

$\frac{7}{9} \square \frac{6}{11}$

- A) $>$ B) $<$ C) $=$ D) None of these

16.



In the adjoining figure, O is the centre of the circle.

 $m(\text{arc } XYB) = 55^\circ$

Find the measure of the arc ADX.

- A) 125° B) 35° C) 110° D) 305°

17. $25x^2 + 20xy + A = (5x + B)^2$ then find values of A and B.

- A) $A = 4y^2, B = 2y$ B) $A = y^2, B = y$
 C) $A = 2y^2, B = 2y$ D) $A = 25, B = 2$

18. If a car is sold for Rs. 528000 there is a loss of 12%. Find the cost price of the car.

- A) Rs. 600000 B) Rs. 660000 C) Rs. 6.5 lakh D) Rs. 6.4 lakh

19. Find the length of the wire required for fencing a circular ground with radius 10 meters .

 $(\pi = 3.14)$

- A) 62.8 m. B) 68.2 m. C) $\frac{430}{7}$ m. D) 314 m.

20. Find the total surface area of the box with length 5 cm., breadth 5 cm. and height 3 cm. ?

- A) 55 sq .cm. B) 75 sq. cm. C) 150 sq.cm. D) 110 sq.cm.

21. By the simple interest, in how many years would a sum of money double itself at rate 10 % per annum ?
 A) 4 years B) 8 years C) 10 years D) 5 years
22. $6\frac{2}{3} - 2\frac{2}{9} = ?$
 A) $4\frac{2}{9}$ B) $\frac{37}{9}$ C) $4\frac{1}{27}$ D) $4\frac{4}{9}$
23. How much wire is required to make a square of side 85 cm. ?
 A) 340 sq.cm. B) 240 cm. C) 7225 sq. cm. D) 340 cm.
24. Convert $2\frac{1}{6}$ into decimal fraction :
 A) 2.66 B) $2.1\bar{6}$ C) $2.\bar{16}$ D) 2.6
25. GCD of two numbers is 7 and LCM is 2310. If one number is 105 find the other.
 A) 735 B) 125 C) 154 D) 451
26. The average of 7 numbers is 28. But by mistake one of the number is written as 46 instead of 53. After the correction what will be the average of the numbers ?
 A) 27 B) 2.9 C) 2.7 D) 29
27. $\frac{6^3 \times 2^4 \times 3^{-2}}{3 \times 2^5} = ?$
 A) 4 B) $\frac{4}{9}$ C) $\frac{4}{3}$ D) 2
28. Find the value of x if $4(x + 1) = 76$
 A) 20 B) 18 C) 88 D) 1.8
29. If A and B together complete the work in 8 days. B alone does the same work in 12 days. How many days does A require to complete the same work alone ?
 A) 6 days B) 20 days C) 24 days D) 96 days
30. Arun scored 196 marks out of 250. What was the percentage of the marks he scored ?
 A) 125% B) 98% C) 7.84 % D) 78.4%
31. The sum of the interior angles of a hexagon is _____
 A) 360° B) 180° C) 540° D) 720°

32. Mother's present age is 2 more than thrice the present age of her son. What was the sum of their ages 2 years ago ? (Let the son's present age be x years.)
- A) $3x + 2$ B) $3x + 4$ C) $4x + 2$ D) $4x - 2$
33. What should be subtracted from $3m^2 - m^3 + 4m + 8$ to get the polynomial $m^3 - 3m + 2m^2 - 5$
- A) $5m^2 + m + 8$ B) $2m^3 + m^2 + 7m + 13$
 C) $-2m^3 + m^2 + 7m + 13$ D) $-5m^2 + m - 8$
34. Length and breadth of a rectangular floor is 4.2 m and 3.6 m. How many square tiles of side 60 cm. will be required to cover it ?
- A) 70 B) 13 C) 84 D) 42
35. $1.21 - (2.2 \times 0.8) + 0.64 =$ _____
- A) 0.3 B) 0.09 C) 0.9 D) 0.03
36. How many faces, vertices and edges does a triangular prism have ?
- A) 3, 4, 5 B) 4, 4, 6 C) 3, 3, 4 D) 5, 6, 9
37. Find the value of m if $4 - 3m = 16$
- A) 4 B) -4 C) $\frac{20}{3}$ D) $-\frac{20}{3}$
38. $54 a^3 b^2 c^2 \div 9 ab^2 c = ?$
- A) $6 a^2 b^2 c$ B) $6 a^2 c$ C) $6 ac^2$ D) $6 abc$
39. Lengths of three sides of the triangle are given below. Which triangle is impossible to draw ?
- A) 5.1, 4.9, 10 B) 3.4, 4.3, 6.2 C) 5.1, 3.5, 7.7 D) 4.6, 9.6, 5.5
40. Find the complementary angle of the supplementary angle of 130°
- A) 50° B) 40° C) 90° D) 30°
41. If the side of a cube is 7 cm. Find its total surface area.
- A) 343 sq. cm. B) 294 sq. cm. C) 343 cu. cm. D) 49 sq. cm.
42. Identify the Pythagorean triplet from the following ?
- A) 9, 41, 40 B) 9, 30, 31 C) 15, 17, 18 D) 9, 10, 11

43. Factorise $49m^2 - \frac{n^2}{16} =$ _____
- A) $(49m - \frac{n}{16})(49m + \frac{n}{16})$ B) $(7m - \frac{n}{4})(7m + \frac{n}{4})$
 C) $(49m - \frac{n}{16})(49m - \frac{n}{16})$ D) $(7m + \frac{4}{n})(7m - \frac{4}{n})$
44. The measure of the reflex angle is _____.
- A) Between 0° and 90° B) Between 90° and 180°
 C) 360° D) Between 180° and 360°
45. Find the value of $\sqrt{745.29}$
- A) 2.37 B) 27.3 C) 2.73 D) 273
46. Factorize : $5a^2 - 20b^2$
- A) $(5a + 4b)(5a - 4b)$ B) $5(a + 2b)(a - 2b)$
 C) $5(a + 4b)(a - 4b)$ D) $(5a - 4b)(5a - 4b)$
47. Multiply : $(2x - 4)(x + 2)$
- A) $2x^2 + 8x + 8$ B) $2x^2 - 2x - 8$ C) $2x^2 + 8$ D) $2x^2 - 8$
48. Which of the following statements is false ?
- A) Adjacent angles have one common arm.
 B) Adjacent angles have one common vertex .
 C) Adjacent angles have separate interiors.
 D) Adjacent angles are always supplementary.
49. $(\frac{a}{2} + \frac{b}{5})^2 = ?$
- A) $\frac{a^2}{4} + \frac{b^2}{25}$ B) $\frac{a^2}{2} + \frac{b^2}{5}$
 C) $\frac{a^2}{4} + \frac{ab}{5} + \frac{b^2}{25}$ D) $\frac{a^2}{4} + \frac{2ab}{5} + \frac{b^2}{25}$
50. Anay and Vinay started a business with an investment of Rs.50000 and Rs.70000 respectively. In the business they got a profit of 14%. What will be share of Vinay in the profit ?
- A) Rs. 7000 B) Rs. 16800 C) Rs. 8900 D) Rs. 9800