CLASS-VII-MATHEMATICS
SET - C

1. The integer which should be added to 22 to given 33, is equal to:

   (A) 8   (B) 9
   (C) 10   (D) 11

2. $\dfrac{16}{5}$ when added to x gives $\dfrac{21}{5}$, then the value of x is equal to:

   (A) 2   (B) 1
   (C) 4   (D) 3

3. If Arun gets Rs. 200 profit in selling a bag, then the number of bags he should sell to earn a profit of Rs. 40000, is equal to:

   (A) 50   (B) 100
   (C) 150   (D) 200

4. Rs 77 and 77 paisa is equal to:

   (A) Rs 77.77   (B) Rs 77.077
   (C) Rs 77.707   (D) Rs 7.7

5. $\dfrac{9.5}{3.8}$ is equal to:

   (A) $2\dfrac{1}{2}$ (B) $1\dfrac{2}{3}$

   (C) $\dfrac{2}{5}$ (D) $\dfrac{5}{4}$

6. 200 gms (in kg) is equal to:

   (A) 0.02   (B) 0.2
   (C) 0.002   (D) 2

7. 0.2×0.003 is equal to:

   (A) 0.06   (B) 0.006
   (C) 0.00006   (D) 0.0006

8. The mean of the data : x, x + 1, 2, 3, 4, −x + 1, −x + 4, is equal to

(A) 2.12   (B) 3.12
(C) 2.13   (D) 2.14

9. The mean of a, b, c, d, and e is 28. If the mean of a, c, and e is 24. The mean of b and d is equal to

    (A) 31   (B) 32
    (C) 33   (D) 34

10. The mean of the following frequency distribution is 7.4

x_i	4	p	5	6	8	10	7
f_i	2	3	1	4	5	3	2

    The value of p is equal to

    (A) 10   (B) 18
    (C) 12   (D) 9

11. A number (n) such that when 5 is subtracted from 5 times the number, the result is 4 more than twice the number, then n is equal to:

    (A) 1   (B) 7
    (C) 3   (D) 5

12. Two complementary angles differ by 16°. Then, the angles are:

    (A) 53°, 37°   (B) 56°, 40°
    (C) 62°, 28°   (D) 59°, 31°

13. Two angles are said to be complementary if the sum of their measure is

    (A) 90°   (B) 180°
    (C) 360°   (D) none of these

14. The sum of all angles around a point is

    (A) 90°   (B) 180°
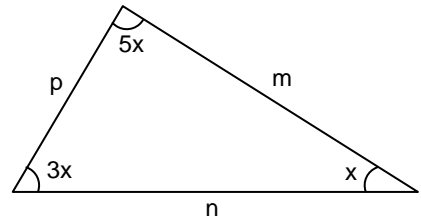   (C) 360°   (D) none of these

15. If a ray stands on a line then the sum of the adjacent angles so formed is

    (A) 90°   (B) 180°
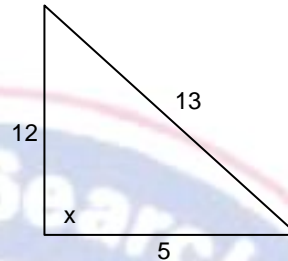   (C) 360°   (D) none of these

16. Based on the given figure, which of the following is correct?

    (A) $n^2 > p^2 + m^2$
    (B) $n^2 < p^2 + m^2$
    (C) $n^2 = p^2 + m^2$
    (D) none of these

17. The alternative which is correct based on the given figure is

    (A) $x > 90°$
    (B) $x < 90°$
    (C) $x = 90°$
    (D) none of these

18. Which of the following is a Pythagorean triplet?

    (A) 9, 40, 41   (B) 6, 7, 10
    (C) 8, 9, 12   (D) 11, 5, 13

19. The median of a triangle divides the total area of the triangle in the ratio of

    (A) 3 : 2   (B) 2 : 3
    (C) 1 : 1   (D) 1 : 2

20. In an obtuse angled triangle, the circumcentre falls

    (A) outside the triangle   (B) inside the triangle
    (C) on one side of the triangle   (D) none of these

21. The mid point of the hypotenuse of a right angled triangle is called

    (A) excentre   (B) incentre
    (C) centroid   (D) circumcentre

22. The product of two rational numbers is $\dfrac{-28}{81}$. If one of the numbers is $\dfrac{14}{27}$, then the other is

    (A) $\dfrac{2}{3}$ (B) $\dfrac{-2}{-3}$

    (C) $\dfrac{-2}{3}$ (D) $\dfrac{4}{3}$

22. Division of rational numbers is

   (A) commutative   (B) associative
   (C) neither commutative nor associative   (D) Both (A) and (B)

23. If the cost of $7\frac{2}{3}$ meters of rope is Rs $12\frac{3}{4}$ then its cost per meter is

   (A) Rs $\frac{61}{92}$ (B) Rs $1\frac{61}{92}$

   (C) Rs $2\frac{61}{92}$ (D) none of these

24. In a class the ratio of number of boys to number of girls is 5 : 6. Then total students in that class may be

   (A) 35   (B) 39
   (C) 42   (D) 55

25. In a examination 35% of the students passed and 455 failed. How many students appeared for the examination?

   (A) 490   (B) 700
   (C) 845   (D) 1300

26. I gain 70 paisa on Rs. 70. My gain percent is

   (A) 0.1%   (B) 1%
   (C) 7%   (D) 10%

27. The literal coefficient of $-\frac{2}{3}p^2q^3$ is

   (A) p^3q^2 (B) p^2q^3
   (C) $-p^2q^3$ (D) $-p^3q^2$

28. The coefficient of y^2 in the term $+\frac{8}{3}z^3xy^2$ is

   (A) $\frac{8}{3}xz^3$ (B) $\frac{8}{3}x^3z$

   (C) $\frac{8}{3}xy^2$ (D) $\frac{8}{3}xz^2$

29. The degree of $8y^2z^2 + 9z^2x + 10xyz^3$ is

(A) 4   (B) 2
(C) 5   (D) 3

30. $\dfrac{\left(2^2\right)^2}{2^{2^2}}$ is equal to

(A) 1   (B) 2
(C) 3   (D) 4

31. $\dfrac{25^{25}}{5^2}$ is equal to

(A) 5^{24} (B) 5^{25}
(C) 5^{26} (D) none of these

32. $\dfrac{2^{10} \times 3^8 \times 5^7}{3^9 \times 2^5}$ is equal to

(A) $\dfrac{2^5 \times 5^7}{3}$ (B) $\dfrac{2^5 \times 5^7}{2}$

(C) $\dfrac{2^5 \times 5^5}{3}$ (D) $\dfrac{3^5 \times 5^7}{2}$

33.   The height of an equilateral triangle is $\sqrt{6}$ m. Its area is _____.

(A) $2\sqrt{2}$ cm^2 (B) $6\sqrt{2}$ cm^2
(C) $2\sqrt{3}$ cm^2 (D) $3\sqrt{3}$ cm^2

34.   Find the area of quadrilateral ABCD in which AB = 42 cm, BC = 21 cm, CD = 29 cm, DA = 34 cm and diagonal BD = 20 cm.

(A) 550 cm^2 (B) 546 cm^2
(C) 525 cm^2 (D) 530 cm^2

35.   The sides of a triangle are 6cm, 8cm and 10cm. Its area is

(A) 48 sq. m   (B) 24 sq. m
(C) 24 sq. cm   (D) 240 sq cm

36.   What is the value of 5×(8−3)5 \times (8 - 3)5×(8−3)?

(A) 5   (B) 15

(C) 25 (D) 40

37. Which fraction is equivalent to $34\frac{3}{4}43$?

(A) $68\frac{6}{8}86$ (B) $912\frac{9}{12}129$
(C) $1216\frac{12}{16}1612$ (D) $1520\frac{15}{20}2015$

38. What is the perimeter of a rectangle with length 7 cm and width 5 cm?

(A) 10 cm (B) 12 cm
(C) 20 cm (D) 24 cm

39. If a triangle has angles measuring 60°, 70°, and 50°, what is the missing angle?

(A) 40° (B) 50°
(C) 60° (D) 70°

40. What is the next number in the sequence: 2, 6, 10, 14, ...?

(A) 16 (B) 18
(C) 20 (D) 22

41. What is the value of $58+38\frac{5}{8} + \frac{3}{8}85+83$?

(A) $12\frac{1}{2}21$ (B) $58\frac{5}{8}85$
(C) $816\frac{8}{16}168$ (D) $88\frac{8}{8}88$

42. Which shape has 6 faces, all of which are squares?

(A) Pyramid (B) Cube
(C) Cylinder (D) Sphere

43. What is the product of 7 and 9?

(A) 16 (B) 63
(C) 72 (D) 81

44. A bag contains 5 red marbles, 3 blue marbles, and 4 green marbles. What is the probability of picking a blue marble?

(A) $14\frac{1}{4}41$ (B) $13\frac{1}{3}31$
(C) $15\frac{1}{5}51$ (D) $312\frac{3}{12}123$

45. If a circle has a diameter of 14 cm, what is its radius?

(A) 7 cm (B) 14 cm
(C) 21 cm (D) 28 cm