Opjindal school patratu

Class 8 subject maths question bank

1. Sum of rational number $\frac{5}{7}$ and its additive inverse is

(a) 1 (b) 0 (c) -1 (d) none of these

2. Product of two rational numbers is 1 . If one of them is $\frac{4}{5}$,then other is

(a) $\frac{-4}{5}$ (b) $\frac{-5}{4}$ (c) $\frac{5}{4}$ (d) none of these

3. Cube of a negative number is

(a) positive (b) negative (c) negative or positive (d) none of these

4. The smallest number by which 192 should be multiplied to make it a perfect cube is

(a) 9 (b) 6 (c) 3 (d) 2

5. How many natural numbers lie between 25^2 and 26^2 ?

(a) 49 (b) 50 (c) 51 (d) 52

6. The solution of equation 4x +3 =6 +2x is

(a) 1 (b) 2 (c) $\frac{3}{2}$ (d) none of these

7. If the sum of three consecutive integers is 51 then the largest integer is

(a) 16 (b) 17 (c) 18 (d) 19

8. When a dice is thrown then the probability of getting even number is

(a) 0 (b) $\frac{1}{2}$ (c) 1 (d) none of these

9. The circle graph is commonly known as

(a) histogram (b) bar graph (c) pie chart (d) none of these

10. If each interior angle 0f a regular polygon is 144° then the number of sides of polygon is

(a) 8 (b) 9 (c) 10 (d) 11

11. The sum of all exterior angles of a pentagon is

(a) 180 (b) 360 (c) 590 (d) none of these

12. Naman buys a toy for Rs 60 and sells it for Rs 75, his profit % is

(a) 15% (b) 20 % (c) 25% (d) 30 %

13. Which of the following is not linear equation of one variable

(a) $3x^2$- 1 =0 (b) x^0- 1 =o (c) 3x – 1=0 (d) 5t+4

14. which of the following rational number is equal to its multiplicative inverse

(a) 1 (b) 0 (c) not possible (d) none of theseThe

15. The solution of the equation 4x +3 =6 +2x is

(a) 1 (b) 3/2 (c) 2 (d) n0ne

16. The additive inverse of ½ is

(a) -2 (b) -1/2 (c) 3/2 (d) none

17 The smallest whole number is

(a) 1 (b) 0 (c) -2 (d) none

18.The smallest natural number is

(a) 1 (b) 0 (c) -2 (d) none

19, The smallest integer is

(a) 0 (b) 1 (c) not defined (d) none

20. If the sum of three consecutive integers is 51 then larger integer is

(a) 16 (b) 17 (c) 18 (d) mone

21. solve $\frac{8x-3}{3x}$ =2

22. Solve by cross multiplication method $\frac{7y+4}{y+2}=\frac{-4}{3}$

23. Find three rational numbers between $\frac{3}{5}$ and $\frac{3}{4}$?

24. The sum of two numbers is 95.If one exceeds the other by 15 , find the two numbers ?

25. Write the name of law and simplify to show equal

$(\frac{-3}{4}+\frac{2}{3})+1=\frac{2}{3}+(\frac{-3}{4}+1)$

26. Solve m - $\frac{m-1}{2}$ = 1- $\frac{m-2}{3}$ and check your solution ?

27. Find 5 rational numbers between $\frac{-5}{4}$ and $\frac{3}{-5}$?

28. What must be subtracted from $\frac{6}{13}$ to obtain $\frac{-7}{16}$?

29. Solve and check your solution $\frac{3x-5}{2x+5}=\frac{5}{3}$

30. Solve $\frac{15}{4}$ - 7x =9-3x or Solve 13y -5=21 -4y Check your solution.

31. Present ages of Anu and Raj are in the ratio 4:5.Eight years from now the ratio of their ages will be 5:6 .Find their present ages ?

32. The denominator of a rational number is greater then its numerator by 8 .If the numerator is increased by 17 and the denominator is increased by 1 ,the number obtained is $\frac{3}{2}$. Find the rational number?

33. Find five rational numbers between -1/2 and 5/4 ?

34. Represent on number line 11/4 ?

35. Find additive inverse of -2/3 ?

36. Find multiplicative inverse of 9/3 ?

37. Solve 3x +9 =x -11 ?

38. Solve 7y -8 =5y +2 ?

39. Solve $\frac{3-2x}{2x+5}=\frac{-3}{11}$?

40. Simplify 4/7 +3/5 ?

41, If height and base of a parallelogram are 14 cm and 7 cm then find its area?

42. Find the area of a rhombus whose diagonals are of length 10 cm and 8.2 cm ?

43.The shape of a table top is a trapezium . Find its area if its parallel sides are 1 m and 1.2 m and perpendicular distance between them is 0.8 m.

44. Using suitable identity find the product of (x+3) and (x+3) ?

45. Add 5m(3-m) and $6m^2$-13m ?

46. Show that $(3x+7)^2$-84x=$(3x-7)^2$

47. Find the following square by suitable identity, $(xy+3z)^2$?

48. Can a polyhedron have 10 faces,20 edges and 15 vertices using Eulers formula?

49. The area of a trapezium is 34 cm^2 and the length of one of the parallel sides is 10 cm and its height is 4 cm .Find the length of the other side?

50. A suitcase with measure 80 cm x 48 cm x 24 cm is to be covered with a cloth. How many meters of cloth of width 96 cm is required to cover 100 such suitcases ?