

JASWANT MODERN SR. SEC SCHOOL CLASS VII

WORKSHEET SET B

1. Express $\frac{-36}{24}$ as a rational number with numerator -9
2. Find five rational number between -3 and -2
3. Find five rational number between $\frac{-3}{5}$ and $\frac{-1}{2}$
4. Add the following rational number: a) $\frac{-2}{5}$ and $\frac{3}{4}$ b) $\frac{1}{-9}$ and $\frac{4}{-27}$ c) $\frac{-9}{24}$ and $\frac{-1}{18}$ d) -4 and $\frac{1}{2}$
5. Subtract a) $\frac{3}{4}$ from $\frac{1}{3}$ b) $\frac{-32}{13}$ from $\frac{-6}{5}$ c) $\frac{8}{9}$ from $\frac{-3}{5}$ d) 5 from $\frac{-3}{5}$
6. Subtract the sum of $\frac{-36}{11}$ and $\frac{49}{22}$ from the sum of $\frac{33}{8}$ and $\frac{-19}{4}$
7. The sum of two rational number is $\frac{4}{21}$. If one of them is $\frac{5}{7}$, find the other number.
8. Simplify a) $\frac{7}{24} \times -48$ b) $\frac{-9}{16} \times \frac{-64}{27}$ c) $\frac{-3}{4} \times \frac{4}{3}$ d) $-13 \times \frac{-17}{26}$
9. Divide the sum of $\frac{65}{12}$ and $\frac{8}{3}$ by their difference.
10. Express each of the following ratios in simplest form a) 24:40 b) 13.5:15 c) $6\frac{2}{3} : 7\frac{1}{2}$ d) $\frac{1}{6} : \frac{1}{9}$
11. Express each of the following ratios in simplest form a) 75 paise :3 rupees b) 1m 5cm :63 cm c) 1km : 750 m
12. Divide RS 360 between Kunal and Mohit in the ratio 7:8
13. Divide RS 5600 between A, B and C in the ratio 1:3:4.
14. The ratio of copper and zinc in an alloy is 9:5. If the weight of copper in the alloy is 48.6 grams, find the weight of zinc in the alloy.
15. A tricycle was purchased for RS 1120 and sold for RS 1260. Find the gain and gain per cent.
16. Find the SP when: a) CP = RS 950, gain =6% b) CP = RS9600, gain = $16\frac{2}{3}$ % c) CP =RS1540, loss =4%
17. Find the gain or loss per cent when: a) CP= RS 2400 and SP= RS 2592 b) CP= RS 1650 and SP= RS 1452
18. Find the CP when: a) SP=RS 924, gain=10% b) SP=RS 1755, gain= $12\frac{1}{2}$ % c) SP=RS 8510, loss =8%
19. Convert each of the following into a fraction. a) 32% b) 120% c) 0.06%
20. Express each of the following as a ratios a) 43% b) 36% c) 7.5% d) 125%
21. Find a) 32% of 425 b) 2.8% of 35 c) 0.6% of 45 d) 6.5% of 400
22. If 3% of x is 9, find the value of x. 23. If 12.5% of x is 6, find the value of x.
24. What percent of 84 is 14? 25. What percentage is RS 15 of RS 120?
26. Find the simple interest and the amount when, Principal =RS 6400, rate =6% p.a time = 2years
27. Find the time when, Principal =RS 6400, SI =RS 1152 and rate =6% p.a
28. Find the rate when, Principal =RS 8250, SI =RS 1100 and time=2 years
29. Solve for x, i) $3x = 2x + 4$ ii) $5t - 3 = 3t - 5$ iii) $5x + 9 = 5 + 3x$ iv) $3m = 5m - 8/5$ v) $4z + 3 = 6 + 2z$
30. Sweety runs around the square park of side 75 cm. Bulbul runs around a rectangular park with length 60 m and breadth 45 m. Who covers less distance
31. Find the cost of fencing the rectangular park with length 175 cm and breath 125 cm at the rate of RS 12 per meter.
32. Simplify i) $(-29) + 42$ ii) $-42 + (-45)$ iii) $(-69) + (-42)$ iv) $(-116) + (-99)$ v) $-89 - 34$
33. Jaidev takes $2\frac{1}{5}$ minutes to walk across the school ground. Rahul takes $7/4$ minutes to do the same. Who takes less time and by what fraction.
34. A piece of wire $7/8$ meter long broke into two pieces. One piece was $1/4$ meter long. How long is the other piece.
35. Niana was given $3/2$ piece of cake and Najma was given $4/3$ piece of cake. Find the total amount of cake was given to both of them.
36. Which of the following are the sides of right angle triangle a) 2.5 cm, 6.5 cm, 6 cm b) 2 cm, 2cm , 2.5 cm
37. Find the perimeter of the rectangle whose diagonal is 41 cm and the length is 40 cm
38. The diagonals of the rhombus measures 16 cm and 30 cm. Find its perimeter.
39. POR is a right angle triangle, right angle at P. If PQ is 10 cm and PR IS 24 cm. Find QR.
40. Write each of the following in the form of equations, a) The sum of three numbers x and 11 is 32.
b) If you subtract 5 from 6 times a number you get, 7 c) one third of a number plus 5 is 8
41. Set up an equation, In an isosceles triangle, the vertex angle is twice either the base angles
42. In a triangle, the base angles are equal. The vertex angle is 40. What are the base angles of the triangles.