

Chapter: 12

Q.1 Choose the correct alternative. (2)

1) If $4p - 10 = -2$, then value of p is

- a. 3 b. -2 c. 2 d. 1

2) Which value of the variable will satisfy the given equation
 $x - 7 = -2$

- a. $x = 9$ b. $x = -9$ c. $x = 5$ d. $x = -5$

Q.2 Answer the following questions (Any two) (4)

1) $2m + 7 = 9$

2) $3x + 12 = 2x - 4$

3)
 $\frac{y-4}{3} + 3y = 4$

Q.3 Attempt the following questions. (Any two) (6)

1) The denominator of a fraction is 4 more than numerator. If 1 is added to the numerator and 9 to the denominator, the value of fraction becomes $\frac{1}{2}$. find the fraction.

2)
 $3a - \frac{1}{5} = \frac{a}{5} + \frac{27}{5}$

3) The ratio of weights of copper and zinc in brass is 13:7. Find the weight of zinc in a brass utensil weighing 700 gm.

Q.4 Solve the following questions. (Any two) (8)

1) Sudhir's present age is 5 more than three times the age of Viru. Anil's age is half the age of Sudhir. If the ratio of the sum of Sudhir's and Viru's age to three times Anil's age is 5:6, then find Viru's age.

2) Check whether the given value of the variable makes the equation true
 $2a + 3 = 1$ $a = 2, 1 - 1$

3) The denominator of a fraction is greater than its numerator by 12. If the numerator is decreased by 2 and the denominator is increased by 7, the new fraction is equivalent with $\frac{1}{2}$. Find the fraction.