Worksheet

Grade 7 - Mathematics

Chapter 4 – linear equation

A.   Choose the correct option.

1)   if x + 5 = 2x, x = _____

      a) 10   b) 0   c) 5   d) -5

2)   three pens cost ₹20 more than one pen. How much does a pen cost?

      a) ₹10   b) ₹20   c) ₹30   d) ₹15

3)   If $2y + \frac{1}{2} = \frac{5}{2}$, y = _____

      a) $\frac{1}{2}$ b) $\frac{3}{2}$ c) 2   d) 1

4)   Dividing 10 into two parts such that one part is 4 times the other, the

      a) 1, 9   b) 3, 7   c) 2, 8   d) 4, 6

5)   Five lemons cost ₹10 more than 3 lemons. How much does one lemon cost?

      a) ₹10   b) ₹5   c) ₹20   d) ₹7.5

B.   Solve the simultaneous operations.

      1) x + 3 = 13

      2) y – 4 = 21

      3) 2z – 2 = 10

      4) 4a + 10 = 50

      5) 3b + 20 = 65

      6) 9c + 20 = 74

C. Check whether transposition is correctly done.

1) $\frac{1}{5} \times \frac{25}{3} =$ _____

2) $\frac{48}{9} \times \frac{45}{12} =$ _____

3) $\frac{35}{15} \times \frac{6}{7} =$ _____

4) $\frac{91}{16} \times 3\frac{9}{13} =$ _____

5) $\frac{21}{33} \times$ _____ $= \frac{25}{3}$

6) $\frac{7}{12} \times$ _____ $= \frac{9}{4}$

7) $\frac{52}{85} \div \frac{13}{17} =$ _____

8) $\frac{72}{81} \div \frac{18}{36} =$ _____

9) $\frac{54}{57} \div \frac{6}{19} =$ _____

10) $\frac{5}{9} \div 1\frac{1}{3} =$ _____

11) $\frac{14}{27} \div$ _____ $= \frac{25}{3}$

12) $63 \div$ _____ $= 15$

C. Answer the following questions.

1) Which will weigh more: $\frac{3}{4}$ of a bag of wheat weighing 20n kg or $\frac{2}{3}$ of a bag of wheat weighing 21 kg?

2) Forty kilograms of rice was distributed to people with each getting $\frac{3}{4}$ kilograms. How many people were given rice?

`