EduSahara™ Assignment

Name : Word Problems on Linear Equations

Chapter : Linear Equations in One Variable

Grade : CBSE Grade VIII

1. Find the missing value in the equation $\_\_\_ : 5 = 24 : 6$

   (i) 20 (ii) 18 (iii) 19 (iv) 23 (v) 21

2. Find the fourth proportional of $12, 3$ and 24

   (i) 24 (ii) 9 (iii) 3 (iv) 6

3. Two numbers are in the ratio 8 : 13. If 18 is added to each number, the ratio becomes 11 : 16. Find the numbers.

   (i) $32 : 52$ (ii) $56 : 91$ (iii) $48 : 78$ (iv) $40 : 65$ (v) $64 : 104$

4. Find the number which bears the same ratio to $\frac{3}{7}$ that $\frac{2}{4}$ does to $\frac{3}{7}$

   (i) $\frac{3}{2}$ (ii) $\frac{1}{4}$ (iii) 1 (iv) $(\frac{-1}{2})$ (v) $\frac{1}{2}$

5. The ages of A and B are in the ratio 8 : 5. 7 years hence, their ages will be in the ratio 3 : 2. Find their present ages.

   (i) $40 : 25$ (ii) $72 : 45$ (iii) $56 : 35$ (iv) $48 : 30$

6. The ages of A and B are in the ratio 9 : 10. 6 years ago, their ages were in the ratio 8 : 9. Find their present ages.

   (i) $36 : 40$ (ii) $45 : 50$ (iii) $54 : 60$ (iv) $72 : 80$

7. The ratio of males to females in a committee of 540 members is 7 : 20. How many more ladies should be added to the committee so that the ratio of males to females is 2 : 7?

   (i) 87 (ii) 89 (iii) 90 (iv) 93 (v) 91

8. A motor boat can move at a speed of 16.33 m/sec in still water. If it goes downstream for 189.07 sec, it travels a distance of 5001.00 m. What is the speed of the stream?

   (i) 11.12 m/sec (ii) 10.12 m/sec (iii) 8.12 m/sec (iv) 9.12 m/sec (v) 12.12 m/sec

9. The speed of a motor boat is 10.48 m/sec and the speed of a stream is 5.08 m/sec. A & B are two location adjacent to a stream. If it takes 1170.93 sec to go from point A to B and come back, What is the distance between A and B?

   (i) 4692.00 m (ii) 4696.00 m (iii) 4693.00 m (iv) 4694.00 m (v) 4695.00 m

10. A train crosses a telegraph post in 35.20 sec and a bridge 508.16 m long in 57.17 sec. What is the length of the train?

    (i) 813.18 m (ii) 815.18 m (iii) 812.18 m (iv) 814.18 m (v) 816.18 m

11. A train crosses a telegraph post in 48.31 sec and a bridge 1726.00 m long in 97.78 sec. What is the speed of the train?

    (i) 36.89 m/sec (ii) 32.89 m/sec (iii) 33.89 m/sec (iv) 35.89 m/sec (v) 34.89 m/sec

12. A can do a work in 7 days. With the help of B, A can do the same work in $1\frac{5}{9}$ days. In how many days can B alone do the work?

(i) 3 days (ii) 0 days (iii) 1 day (iv) 2 days (v) 5 days

13. Due to a leak at the bottom, pipe Y takes $4\frac{1}{2}$ hr to fill the tank. The leak alone can empty the full tank in 9 hr. In what time can pipe Y alone fill the tank when the leak is closed?

(i) 3 hr (ii) 5 hr (iii) 0 hr (iv) 2 hr (v) 4 hr

Assignment Key

1) (i)	2) (iv)	3) (iii)	4) (v)	5) (iii)	6) (iii)
7) (iii)	8) (ii)	9) (iv)	10) (iv)	11) (v)	12) (iv)
13) (i)					