## EduSahara™ Learning Center Assignment

Grade : Class VIII, CBSE

Chapter : Linear Equations in One Variable
Name : Word Problems on Linear Equations

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- - (i) 3 (ii) 2 (iii) 1 (iv) 6 (v) 4
- 2. Find the fourth proportional of 30,5 and 42
  - (i) 7 (ii) 5 (iii) 42 (iv) 10

Two numbers are in the ratio 9:17 . If 20 is added to each number,

- 3. the ratio becomes 119:207 . Find the numbers
  - (i) 81:153 (ii) 99:187 (iii) 108:204
  - (iv) 90:170 (v) 117:221
- 4. Find the number which bears the same ratio to  $\frac{1}{3}$  that  $\frac{1}{4}$  does to  $\frac{19}{84}$ 
  - (i)  $\frac{5}{19}$  (ii)  $\frac{7}{19}$  (iii)  $\frac{1}{3}$  (iv)  $\frac{9}{19}$  (v)  $\frac{7}{17}$
- $_{5}$ . The ages of A and B are in the ratio 2 : 3. 5 years hence, their ages will be in the ratio 7 : 10. Find their present ages
  - (i) 34:51 (ii) 30:45 (iii) 26:39 (iv) 28:42
- 6. The ages of A and B are in the ratio 8:9.5 years ago, their ages were in the ratio 7:8.5 Find their present ages
  - (i) 56:63 (ii) 24:27 (iii) 32:36 (iv) 40:45

The ratio of males to females in a committee of 460 members is 5:18.

- 7. How many more ladies be added to the committee so that the ratio of males to females is 5 : 22 ?
  - (i) 77 (ii) 79 (iii) 81 (iv) 80 (v) 82
- 8. A motor boat can move at a speed of 6.85 m/sec in still water. If it goes downstream for 476.57 sec, it travels a distance of 4718.00 mt. What is the speed of the stream?

- (i) 4.05 m/sec (ii) 5.05 m/sec (iii) 2.05 m/sec (iv) 3.05 m/sec (v) 1.05 m/sec
- The speed of a motor boat is 13.90 m/sec and the speed of a stream is 3.90 m/sec. A & B are 9. two location adjacent to a stream. If it takes 238.17 sec to go from point A to B and come back, What is the distance between A and B?
  - (i) 1526.97 mt (ii) 1522.97 mt (iii) 1525.97 mt (iv) 1524.97 mt (v) 1523.97 mt
- $10.\$ A train crosses a telegraph post in 31.43 sec and a bridge 485.08 mt long in 48.45 sec. What is the length of the train?
  - (i) 896.75 mt (ii) 893.75 mt (iii) 894.75 mt (iv) 897.75 mt (v) 895.75 mt
- 11. A train crosses a telegraph post in 48.53 sec and a bridge 816.80 mt long in 71.61 sec. What is the speed of the train?
  - (i) 33.39 m/sec (ii) 37.39 m/sec (iii) 34.39 m/sec (iv) 36.39 m/sec (v) 35.39 m/sec
  - A can do a work in 7 days. With the help of B, A can do the same work in
- 12.  $1\frac{5}{9}$  days . In how many days can B alone do the work?
  - (i) 2 days (ii) 0 days (iii) 4 days (iv) 1 day (v) 3 days

Due to a leak at the bottom, pipe Y takes 3 hrs to fill the tank.

- 13. The leak alone can empty the full tank in 6 hrs
  - In what time can pipe Y alone fill the tank when the leak is closed?
  - (i) 3 hrs (ii) 2 hrs (iii) 0 hrs (iv) 1 hr (v) 4 hrs

## **Assignment Key**

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