



1. Find the missing value in the equation \_\_\_\_ : 8 = 30 : 5  
(i) 51 (ii) 49 (iii) 47 (iv) 48 (v) 45
2. Find the fourth proportional of 24, 6 and 36  
(i) 9 (ii) 36 (iii) 12 (iv) 6
3. Two numbers are in the ratio 6 : 10. If 16 is added to each number, the ratio becomes 41 : 63. Find the numbers.  
(i) 66:110 (ii) 60:100 (iii) 72:120 (iv) 78:130 (v) 54:90
4. Find the number which bears the same ratio to  $\frac{5}{6}$  that  $\frac{1}{7}$  does to  $\frac{25}{63}$   
(i)  $\frac{1}{4}$  (ii)  $\frac{1}{2}$  (iii)  $\frac{3}{10}$  (iv)  $\frac{3}{8}$  (v)  $\frac{1}{10}$
5. The ages of A and B are in the ratio 10 : 7. 9 years hence, their ages will be in the ratio 11 : 8. Find their present ages.  
(i) 70:49 (ii) 110:77 (iii) 90:63 (iv) 80:56
6. The ages of A and B are in the ratio 10 : 9. 8 years ago, their ages were in the ratio 9 : 8. Find their present ages.  
(i) 70:63 (ii) 100:90 (iii) 60:54 (iv) 80:72
7. The ratio of males to females in a committee of 48 members is 1 : 2. How many more ladies should be added to the committee so that the ratio of males to females is 1 : 5?  
(i) 46 (ii) 49 (iii) 48 (iv) 51 (v) 47
8. A motor boat can move at a speed of 16.67 m/sec in still water. If it goes downstream for 65.14 sec, it travels a distance of 1482.00 m. What is the speed of the stream?  
(i) 8.08 m/sec (ii) 4.08 m/sec (iii) 5.08 m/sec (iv) 6.08 m/sec (v) 7.08 m/sec
9. The speed of a motor boat is 17.29 m/sec and the speed of a stream is 9.49 m/sec. A & B are two location adjacent to a stream. If it takes 258.25 sec to go from point A to B and come back, What is the distance between A and B?  
(i) 1561.99 m (ii) 1557.99 m (iii) 1560.99 m (iv) 1558.99 m (v) 1559.99 m
10. A train crosses a telegraph post in 31.22 sec and a bridge 2017.32 m long in 79.69 sec. What is the length of the train?  
(i) 1298.38 m (ii) 1301.38 m (iii) 1300.38 m (iv) 1297.38 m (v) 1299.38 m
11. A train crosses a telegraph post in 10.40 sec and a bridge 548.26 m long in 22.41 sec. What is the speed of the train?  
(i) 46.65 m/sec (ii) 43.65 m/sec (iii) 45.65 m/sec (iv) 44.65 m/sec (v) 47.65 m/sec

A can do a work in 3 days . With the help of B, A can do the same work in

12.  $1\frac{1}{5}$  days . In how many days can B alone do the work?

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

Due to a leak at the bottom, pipe Y takes  $3\frac{3}{8}$  hr to fill the tank.

13. The leak alone can empty the full tank in 27 hr .

In what time can pipe Y alone fill the tank when the leak is closed?

(i) 1 hr (ii) 6 hr (iii) 3 hr (iv) 4 hr (v) 2 hr

## Assignment Key

1) (iv)

2) (i)

3) (i)

4) (iii)

5) (iii)

6) (iv)

7) (iii)

8) (iv)

9) (v)

10) (v)

11) (iii)

12) (v)

13) (iii)

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