



1. Find the missing value in the equation \_\_\_\_ : 5 = 36 : 9  
(i) 22 (ii) 20 (iii) 19 (iv) 21 (v) 18
2. Find the fourth proportional of 8, 2 and 28  
(i) 5 (ii) 9 (iii) 28 (iv) 2 (v) 7
3. Two numbers are in the ratio 6 : 8. If 14 is added to each number, the ratio becomes 37 : 47. Find the numbers.  
(i) 54:72 (ii) 48:64 (iii) 72:96 (iv) 60:80 (v) 66:88
4. Find the number which bears the same ratio to  $\frac{1}{7}$  that  $\frac{2}{3}$  does to  $\frac{4}{21}$   
(i)  $\frac{1}{3}$  (ii)  $\frac{3}{5}$  (iii)  $\frac{2}{3}$  (iv)  $\frac{1}{2}$  (v)  $\frac{3}{7}$
5. The ages of A and B are in the ratio 7 : 8. 9 years hence, their ages will be in the ratio 8 : 9. Find their present ages.  
(i) 77:88 (ii) 56:64 (iii) 63:72 (iv) 49:56
6. The ages of A and B are in the ratio 5 : 3. 5 years ago, their ages were in the ratio 9 : 5. Find their present ages.  
(i) 45:27 (ii) 40:24 (iii) 50:30 (iv) 60:36
7. The ratio of males to females in a committee of 323 members is 15 : 4. How many more ladies should be added to the committee so that the ratio of males to females is 255 : 128?  
(i) 58 (ii) 62 (iii) 61 (iv) 60 (v) 59
8. A motor boat can move at a speed of 27.94 m/sec in still water. If it goes downstream for 54.13 sec, it travels a distance of 1867.00 m. What is the speed of the stream?  
(i) 4.55 m/sec (ii) 8.55 m/sec (iii) 6.55 m/sec (iv) 7.55 m/sec (v) 5.55 m/sec
9. The speed of a motor boat is 23.25 m/sec and the speed of a stream is 13.25 m/sec. A & B are two location adjacent to a stream. If it takes 505.64 sec to go from point A to B and come back, What is the distance between A and B?  
(i) 3967.00 m (ii) 3970.00 m (iii) 3971.00 m (iv) 3969.00 m (v) 3968.00 m
10. A train crosses a telegraph post in 45.76 sec and a bridge 220.11 m long in 58.52 sec. What is the length of the train?  
(i) 789.36 m (ii) 791.36 m (iii) 790.36 m (iv) 788.36 m (v) 787.36 m
11. A train crosses a telegraph post in 24.23 sec and a bridge 1992.65 m long in 73.48 sec. What is the speed of the train?  
(i) 41.46 m/sec (ii) 39.46 m/sec (iii) 38.46 m/sec (iv) 40.46 m/sec (v) 42.46 m/sec

12. A can do a work in 3 days . With the help of B, A can do the same work in 2 days . In how many days can B alone do the work?

(i) 6 days (ii) 7 days (iii) 5 days (iv) 9 days (v) 3 days

Due to a leak at the bottom, pipe Y takes  $5\frac{5}{8}$  hr to fill the tank.

13. The leak alone can empty the full tank in 45 hr .

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

(i) 2 hr (ii) 4 hr (iii) 8 hr (iv) 5 hr (v) 6 hr

## Assignment Key

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

Copyright © Small Systems Computing Pvt. Ltd.