



1. A man reduces his weight in the ratio 17 : 11. What is his weight now, if originally he was 64 kg ?

- (i) $\frac{704}{17}$ kg
- (ii) $\frac{705}{17}$ kg
- (iii) $\frac{738}{17}$ kg
- (iv) $\frac{721}{17}$ kg
- (v) $\frac{706}{17}$ kg

2. A certain amount has been divided into two parts in the ratio 6 : 2. If the first part is 216, find the total amount.

- (i) 290
- (ii) 289
- (iii) 286
- (iv) 288
- (v) 287

3. A bag contains ₹702 in the form of five-rupee, two-rupee and one-rupee coins in the ratio 11 : 8 : 7. Find the number of coins of each type

- (i) 101 , 67 , 63
- (ii) 97 , 77 , 63
- (iii) 99 , 72 , 63
- (iv) 98 , 72 , 68
- (v) 100 , 77 , 58

In an examination, the ratio of passes to failures was 2 : 1.

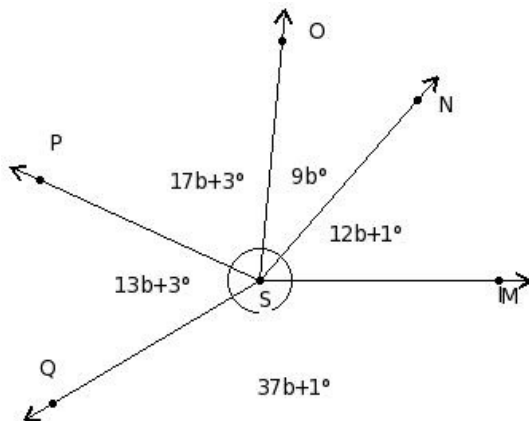
4. Had 35 less appeared and 15 less passed, the ratio of passes to failures would have been 33 : 14. How many students appeared for the examination?

- (i) 270
- (ii) 280
- (iii) 275
- (iv) 260
- (v) 265

5. In a company, the number of engineers to managers is in the ratio 6 : 1 . After a year, when 10 engineers and 15 managers left, the ratio between engineers to managers is 70 : 9 . Find the number of engineers and managers at the beginning?

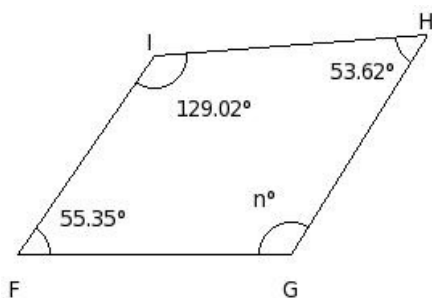
- (i) 410
- (ii) 440
- (iii) 420
- (iv) 400
- (v) 430

6. Find the value of 'b' in the following figure



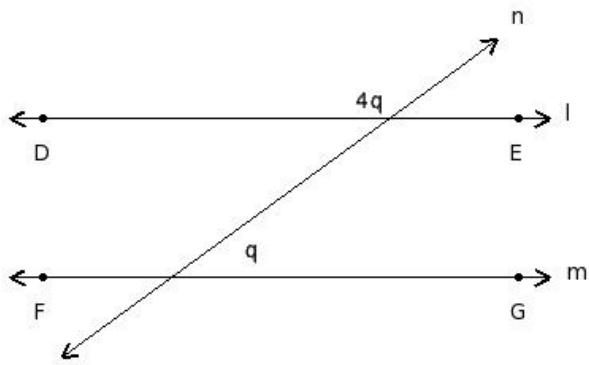
- (i) 5
- (ii) 1
- (iii) 3
- (iv) 7
- (v) 4

7. Find the missing angle in the given quadrilateral



- (i) 152.01°
- (ii) 137.01°
- (iii) 132.01°
- (iv) 122.01°
- (v) 127.01°

8. In the given figure $l \parallel m$. Find the value of 'q'



- (i) 33 (ii) 39 (iii) 36 (iv) 37 (v) 35

9. The work done by $(x + 2)$ men in $(2x)$ days and work done by $(4x)$ men in $(x + 2)$ days is in the ratio of $1 : 2$. Find the value of x

- (i) 5 (ii) 7 (iii) 3 (iv) 6 (v) 4

10. Two numbers are in the ratio $7 : 3$ and their difference is 120. Find the numbers.

- (i) 209,90 (ii) 210,92 (iii) 210,87 (iv) 210,90 (v) 211,90

11. The sides of a triangle are in the ratio $\frac{1}{8} : \frac{1}{7} : \frac{1}{2}$ and its perimeter is 473 cm.

Find the lengths of the sides of the triangle

- (i) 82 cm : 88 cm : 303 cm (ii) 72 cm : 93 cm : 308 cm (iii) 82 cm : 83 cm : 308 cm (iv) 72 cm : 88 cm : 313 cm
(v) 77 cm : 88 cm : 308 cm

12. An office contains 752 employees of 4 types. The managers, team leaders, developers and testers are in the ratio $1 : 5 : 7 : 3$. The number of managers in the office =

- (i) 44 (ii) 48 (iii) 47 (iv) 50 (v) 46

13. The speed of a motor boat is 29.77 m/sec and the speed of a stream is 19.77 m/sec. A & B are two location adjacent to a stream. If it takes 505.02 sec to go from point A to B and come back, What is the distance between A and B?

- (i) 4204.00 m (ii) 4201.00 m (iii) 4200.00 m (iv) 4202.00 m (v) 4203.00 m

14. A student walks from his house to school at 3.19 kmph and arrives 24.30 min late. The next day he walks at 17.30 kmph and reaches the school 21.20 min before time. What is the distance from his house to school?

- (i) 3.97 km (ii) 4.97 km (iii) 2.97 km (iv) 1.97 km (v) 0.97 km

15. A train crosses a telegraph post in 38.12 sec and a bridge 378.88 m long in 57.14 sec. What is the length of the train?

- (i) 759.35 m (ii) 760.35 m (iii) 758.35 m (iv) 757.35 m (v) 761.35 m

16. A train crosses a telegraph post in 41.75 sec and a bridge 956.60 m long in 75.89 sec. What is the speed of the train?

- (i) 30.02 m/sec (ii) 26.02 m/sec (iii) 28.02 m/sec (iv) 29.02 m/sec (v) 27.02 m/sec

A can do a work in 4 days. With the help of B, A can do the same work in

17. $2\frac{2}{3}$ days. In how many days can B alone do the work?

- (i) 6 days (ii) 9 days (iii) 8 days (iv) 7 days (v) 11 days

- Due to a leak at the bottom, pipe Y takes $7\frac{1}{2}$ hr to fill the tank.
18. The leak alone can empty the full tank in 15 hr.
In what time can pipe Y alone fill the tank when the leak is closed?
(i) 6 hr (ii) 4 hr (iii) 2 hr (iv) 7 hr (v) 5 hr
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- A, B and C together can do a work in $1\frac{13}{47}$ days.
19. If A and C can do the work in 5 days and 4 days respectively,
in how many days can B alone do the work?
(i) 1 day (ii) 5 days (iii) 3 days (iv) 4 days (v) 2 days
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- A and B together can do a piece of work in $4\frac{12}{19}$ hr.
20. They work together for 2 hr and then A leaves.
B completes the remaining work in $4\frac{6}{11}$ hr.
In how much time can each of them do the work separately?
(i) (11 hr, 8 hr) (ii) (11 hr, 9 hr) (iii) (10 hr, 8 hr) (iv) (11 hr, 7 hr) (v) (12 hr, 8 hr)
-
- A and B together can do a piece of work in $4\frac{2}{19}$ days.
21. They work together for 2 days and then A leaves.
B completes the remaining work in $6\frac{2}{3}$ days.
In how much time can each of them do the work separately?
(i) (7 days, 13 days) (ii) (6 days, 14 days) (iii) (6 days, 12 days) (iv) (6 days, 13 days) (v) (5 days, 13 days)
-
- A can do $\frac{1}{6}$ of a work in $1\frac{1}{3}$ hr.
22. He works for 4 hr when B joins him.
They work together and complete the work in $2\frac{10}{21}$ hr.
In how much time, B alone can do the work?
(i) 14 hr (ii) 12 hr (iii) 15 hr (iv) 11 hr (v) 13 hr
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23. What number must be added to each term of the ratio 30:60 to make it 17:20 ?
(i) 139 (ii) 142 (iii) 138 (iv) 141 (v) 140
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24. A ratio is equal to 7 : 10. If its antecedent is 3094, what is its consequent?
(i) 4421 (ii) 4420 (iii) 4423 (iv) 4419 (v) 4418
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25. A ratio is equal to 14 : 1. If its consequent is 375, what is its antecedent?
(i) 5249 (ii) 5253 (iii) 5251 (iv) 5250 (v) 5248
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26. Two numbers are in the ratio 11 : 12. If 20 is added to each number, the ratio becomes 141 : 152. Find the numbers.
(i) 143:156 (ii) 132:144 (iii) 110:120 (iv) 99:108 (v) 121:132

The ratio of two numbers is

27. 1:5

and their LCM is 70. Find the numbers.

(i) 16:80 (ii) 13:65 (iii) 14:70 (iv) 15:75 (v) 12:60

28. The ages of A and B are in the ratio 7 : 10. 5 years hence, their ages will be in the ratio 8 : 11. Find their present ages.

(i) 21:30 (ii) 49:70 (iii) 28:40 (iv) 35:50

29. The ages of A and B are in the ratio 10 : 9. 7 years ago, their ages were in the ratio 9 : 8. Find their present ages.

(i) 70:63 (ii) 60:54 (iii) 90:81 (iv) 50:45

30. The ratio of males to females in a committee of 42 members is 1 : 2. How many more ladies should be added to the committee so that the ratio of males to females is 1 : 6?

(i) 55 (ii) 56 (iii) 59 (iv) 53 (v) 57

Assignment Key

1) (i)	2) (iv)	3) (iii)	4) (i)	5) (iii)	6) (v)
7) (iv)	8) (iii)	9) (i)	10) (iv)	11) (v)	12) (iii)
13) (iv)	14) (iii)	15) (i)	16) (iii)	17) (iii)	18) (v)
19) (iii)	20) (i)	21) (iv)	22) (v)	23) (v)	24) (ii)
25) (iv)	26) (v)	27) (iii)	28) (iv)	29) (i)	30) (ii)