

Time Taken



00:00

Mark Gained



1. In a business, the ratio of the capitals of A and B is 2 : 1, that of B and C is 4 : 3 and that of D and C is 6 : 5. Then the ratio of the capitals of A and D is -

- a. 5 : 3
- b. 3 : 5
- c. 9 : 20
- d. 20 : 9

[Show Answer](#)[Show Explanation](#)**Explanation:**

Given, $A : B = 2 : 1$ $B : C = 4 : 3$ $D : C = 6 : 5$ Now, $A/D = (A/B) \times (B/C) \times (C/D) = (2/1) \times (4/3) \times (5/6) = 20/9 \therefore A : D = 20 : 9$

2. The ratio of three numbers is 3 : 4 : 5 and the sum of their squares is 1250. The sum of the numbers is-

- a. 30
- b. 60
- c. 65

d. 70

Show Answer

Show Explanation

Explanation: Let, the number be $3x, 4x, 5x$ According to the question, $(3x)^2 + (4x)^2 + (5x)^2 = 1250 \Rightarrow 50x^2 = 1250 \Rightarrow x^2 = 1250/50 \Rightarrow x^2 = 25 \therefore x = 5 \therefore$
The sum of the numbers = $3x + 4x + 5x = 12x = 12 \times 5 = 60$

3.The average of two numbers is 62. If 2 is added to the smaller number, the ratio between the numbers becomes 1 : 2. The larger number is -

a. 82

b. 84

c. 86

d. 98

Show Answer

Show Explanation

Explanation: Let, smaller number is x , The larger number is y . $\therefore (x + y)/2 = 62 \Rightarrow x + y = 124 \therefore x = 124 - y$ (1) ATP, $(x + 2)/y = 1/2 \Rightarrow 2(x + 2) = y \Rightarrow y = 2x + 4$
 $y = 2(124 - y) + 4 \Rightarrow y = 248 - 2y + 4 \Rightarrow 3y = 252 \Rightarrow y = 252/3 \therefore x = 84 \therefore$ The larger number is 84.

4.If 40% of a number is equal to two-thirds of another number, what is the ratio of the first number to the second number?

a. 7 : 3

b. 5 : 4

c. 5 : 3

d. 2 : 5

Show Answer

Show Explanation

Explanation:

Let, 1st number x 2nd number y ATP, $40x/100 = 2y/3 \Rightarrow 2x/5 = 2y/3 \Rightarrow 6x = 10y \Rightarrow x/y = 10/6 \therefore x : y = 5 : 3$

5.A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Tk. 855, the total profit is-

a. Tk. 1425

b. Tk. 1500

c. Tk. 1575

d. Tk. 1600

Show Answer

Show Explanation

Explanation:

Let the total profit be Tk. 100.

After paying to charity, A's share = Tk. $95 \times (3/5) = \text{Tk. } 57$.

If A's share is Tk. 57, total profit = Tk. 100.

If A's share Tk. 855, total profit = $(100 \times 855)/57 = 1500$.

6.If $a : b = 2 : 3$ and $a : c = 4 : 7$, then $b : c = ?$

a. 6 : 7

b. 7 : 6

c. 6 : 1

d. 1 : 6

Show Answer

Show Explanation

Explanation:

$$a : b = 2 : 3$$

$$\Rightarrow a/b = 2/3$$

$$a : c = 4 : 7$$

$$\Rightarrow a/c = 4/7$$

$$(a/b) / (a/c) = (2/3)/(4/7)$$

$$\Rightarrow c/b = 7/6$$

$$\therefore b/c = 6/7$$

$$\therefore b : c = 6 : 7$$

7.If $A : B = (1/2) : (1/3)$ and $B : C = (1/2) : (1/3)$, then $A : B : C = ?$

a. $3 : 6 : 4$

b. $9 : 6 : 4$

c. $6 : 9 : 4$

d. $9 : 6 : 5$

Show Answer

Show Explanation

Explanation:

Solution:

$$A : B = (1/2) : (1/3)$$

$$\Rightarrow A : B = (6/2) : (6/3)$$

$$= 3 : 2$$

$$= (3 \times 3) : (3 \times 2)$$

$$= 9 : 6$$

$$B : C = (1/2) : (1/3)$$

$$\Rightarrow B : C = (6/2) : (6/3)$$

$$= 3 : 2$$

$$= (3 \times 2) : (2 \times 2)$$

$$= 6 : 4$$

$$\text{then } A : B : C = 9 : 6 : 4$$

8. Tk. 1500 is divided into three parts in the ratio $(2/3) : (3/4) : (5/6)$, the 2nd part is-

- a. 300
- b. 400
- c. 500
- d. 600

Show Answer

Show Explanation

Explanation:

$$A : B : C = (2/3) : (3/4) : (5/6)$$
$$= \{(2/3) \times 12\} : \{(3/4) \times 12\} : \{(5/6) \times 12\} = 8 : 9 : 10$$

$$\therefore \text{Sum of the terms of ratio} = (8 + 9 + 10) = 27$$

$$\text{So, First part} = \text{Tk. } \{(9/27) \times 1500\} = \text{Tk. } 500$$

9. The ratio of men : women working in a company is 3 : 5. What proportion of the employees are women?

- a. $3/5$
- b. $5/3$
- c. $3/8$
- d. $5/8$

Show Answer

Show Explanation

Explanation:

In this company, the ratio of men : women is 3 : 5
so for every 3 men there are 5 women.

This means that for every 8 employees, 5 of them are women.
Therefore $\frac{5}{8}$ of the employees are women.

10. What is the ratio of 6 inches to 6 feet?

a. 1 : 12

b. 1 : 10

c. 1 : 11

d. 1 : 13

Show Answer

Show Explanation

Explanation:

We know,

1 feet = 12 inches

So, 6 feet = 6×12

= 72 inches

Now,

6 inches : 6 feet = $6 : 72 = 1 : 12$



Privacy Policy

Helpline: 01329672052

© 2025 P2A All rights reserved
