



1. Find the compound ratio of 8:6 and 16:4

- (i) 128:21 (ii) 127:24 (iii) 128:24 (iv) 129:24 (v) 128:26

2. Find the compounded ratio of  $y:h$  and  $r:i$

- (i)  $yh : ri$  (ii)  $yr:hi$  (iii)  $h : ri$  (iv)  $ir : yh$  (v)  $r : yh$

3. Mallika and Flavia started a business with capitals of ₹20000.00 and ₹14000.00 respectively and made a profit of ₹6800.00 at the end of the year. Find the share of each.

- (i) Mallika's share = ₹4400.00, Flavia's share = ₹2400.00  
(ii) Mallika's share = ₹4000.00, Flavia's share = ₹2800.00  
(iii) Mallika's share = ₹4200.00, Flavia's share = ₹2600.00  
(iv) Mallika's share = ₹3600.00, Flavia's share = ₹3200.00  
(v) Mallika's share = ₹3691.43, Flavia's share = ₹3108.57

4. Kareena started a business with a capital of ₹5000.00 and Dolly joined her sometime later with a capital of ₹20000.00. Out of the total annual profit of ₹4400.00, if Kareena's share is ₹1100.00, when did Dolly join as partner?

- (i) Dolly joined as partner after 6 months (ii) Dolly joined as partner after 5 months  
(iii) Dolly joined as partner after 3 months (iv) Dolly joined as partner after 7 months  
(v) Dolly joined as partner after 2 months

5. Kumar and Sai started a business with a total investment of ₹30000.00. If the total profit of ₹39000.00 is divided equally instead of dividing in the ratio of their investments, Kumar gets ₹5200.00 more. What is the share of each partner?

- (i) ₹11200.00, ₹18800.00 (ii) ₹11100.00, ₹18900.00 (iii) ₹11000.00, ₹19000.00 (iv) ₹11300.00, ₹18700.00  
(v) ₹11400.00, ₹18600.00

6. Rizvana and Mumtaz started a business with a total investment of ₹35000.00. Out of the total profit of ₹70000.00 at the end of the year, keeping ₹42000.00 for managing the business, the balance is divided in the ratio of their investments. If Mumtaz gets ₹2400.00 more than Rizvana, find their investments.

- (i) ₹16000.00, ₹19000.00 (ii) ₹16300.00, ₹18700.00 (iii) ₹16400.00, ₹18600.00 (iv) ₹16100.00, ₹18900.00  
(v) ₹16200.00, ₹18800.00

7. Mumtaz and Lakshmi started a business with equal capital. But Lakshmi withdrew from the business at the end of 6 months. If at the end of the year, they made a profit of ₹4200.00, find the share of each.

- (i) Mumtaz's share = ₹2290.91, Lakshmi's share = ₹1909.09  
(ii) Mumtaz's share = ₹2800.00, Lakshmi's share = ₹1400.00  
(iii) Mumtaz's share = ₹2520.00, Lakshmi's share = ₹1680.00  
(iv) Mumtaz's share = ₹2400.00, Lakshmi's share = ₹1800.00  
(v) Mumtaz's share = ₹2964.71, Lakshmi's share = ₹1235.29

Satish started a business. After some time Vivek joined him.

The ratio of their investments is 1 : 12 .

8. If their profits at the end of the year are equal, find when Vivek joined the business.

(i) 10 months later (ii) 3 months later (iii) 11 months later (iv) 4 months later (v) 2 months later

Anusha started a business. After some time Aruna joined her.

9. The ratio of their investments is 13 : 14 . If their profits at the end of the year are ₹39000.00 and ₹14000.00 respectively, find when Aruna joined the business.

(i) 1 months later (ii) 10 months later (iii) 11 months later (iv) 7 months later (v) 8 months later

10. The work done by  $(x + 1)$  men in  $(32x + 1)$  days and work done by  $(19x + 1)$  men in  $(3x + 1)$  days is in the ratio of 5 : 7 . Find the value of x

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

11. 8 men can do a work in 11 days working 5 hours a day. In how many days can 17 men do the same work, working 10 hours a day?

(i)  $2\frac{2}{3}$  days (ii)  $2\frac{10}{19}$  days (iii)  $2\frac{12}{17}$  days (iv)  $2\frac{10}{17}$  days (v)  $2\frac{8}{17}$  days

## Assignment Key

1) (iii)

2) (ii)

3) (ii)

4) (iii)

5) (iii)

6) (i)

7) (ii)

8) (iii)

9) (v)

10) (ii)

11) (iv)

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