EduSahara™ Assignment

Name : Compound Ratio

Chapter : Comparing Quantities using Proportion

Grade : SSC Grade VIII

1. Find the compound ratio of $5:2$ and $15:3$

   (i) $75:8$ (ii) $75:4$ (iii) $74:6$ (iv) $75:6$ (v) $76:6$

2. Find the compounded ratio of $f:o$ and $j:c$

   (i) $cj:fo$ (ii) $o:jc$ (iii) $j:fo$ (iv) $fo:jc$ (v) $fj:oc$

3. Mallika and Karthik started a business with capitals of ₹16000.00 and ₹13000.00 respectively and made a profit of ₹43500.00 at the end of the year. Find the share of each.

   (i) Mallika's share = ₹21000.00, Karthik's share = ₹22500.00

   (ii) Mallika's share = ₹21750.00, Karthik's share = ₹21750.00

   (iii) Mallika's share = ₹27000.00, Karthik's share = ₹16500.00

   (iv) Mallika's share = ₹24000.00, Karthik's share = ₹19500.00

   (v) Mallika's share = ₹25500.00, Karthik's share = ₹18000.00

4. Swathi started a business with a capital of ₹12000.00 and Keerthi joined her sometime later with a capital of ₹9000.00. Out of the total annual profit of ₹5100.00, if Swathi's share is ₹4800.00, when did Keerthi join as partner?

   (i) Keerthi joined as partner after 10 months (ii) Keerthi joined as partner after 4 months

   (iii) Keerthi joined as partner after 3 months (iv) Keerthi joined as partner after 2 months

   (v) Keerthi joined as partner after 11 months

5. Sai and Aruna started a business with a total investment of ₹27000.00. If the total profit of ₹54000.00 is divided equally instead of dividing in the ratio of their investments, Sai gets ₹1000.00 more . What is the share of each partner?

   (i) ₹13100.00, ₹13900.00 (ii) ₹13000.00, ₹14000.00 (iii) ₹13300.00, ₹13700.00 (iv) ₹13400.00, ₹13600.00

   (v) ₹13200.00, ₹13800.00

6. Vimala and Aruna started a business with a total investment of ₹29000.00. Out of the total profit of ₹319000.00 at the end of the year, keeping ₹159500.00 for managing the business, the balance is divided in the ratio of their investments. If Aruna gets ₹49500.00 more than Vimala, find their investments.

   (i) ₹10000.00, ₹19000.00 (ii) ₹10300.00, ₹18700.00 (iii) ₹10400.00, ₹18600.00 (iv) ₹10200.00, ₹18800.00

   (v) ₹10100.00, ₹18900.00

7. Karthik and Arun started a business with equal capital. But Arun withdrew from the business at the end of 7 months. If at the end of the year, they made a profit of ₹28500.00, find the share of each.

   (i) Karthik's share = ₹18000.00, Arun's share = ₹10500.00

   (ii) Karthik's share = ₹16285.71, Arun's share = ₹12214.29

   (iii) Karthik's share = ₹15545.45, Arun's share = ₹12954.55

   (iv) Karthik's share = ₹14869.57, Arun's share = ₹13630.43

   (v) Karthik's share = ₹19000.00, Arun's share = ₹9500.00

8. Satya started a business. After some time Salman joined him.
The ratio of their investments is $1:6$.
If their profits at the end of the year are equal,
find when Salman joined the business.

(i) 9 months later (ii) 10 months later (iii) 3 months later (iv) 2 months later (v) 1 months later

9. Geetika started a business. After some time Swetha joined her.
The ratio of their investments is $17:18$. If their profits
at the end of the year are ₹20400.00 and ₹10800.00 respectively,
find when Swetha joined the business.

(i) 9 months later (ii) 10 months later (iii) 6 months later (iv) 8 months later (v) 5 months later

10. The work done by (x + 2) men in (11x) days and work done by (3x) men in (4x + 2) days is in the ratio of 55 : 42 . Find the value of x

(i) 5 (ii) 3 (iii) 0 (iv) 2 (v) 4

11. 20 men can do a work in 6 days working 8 hours a day.
In how many days can 19 men do the same work, working 6 hours a day?

(i) $8\frac{8}{19}$ days (ii) $8\frac{8}{17}$ days (iii) $8\frac{6}{19}$ days (iv) $8\frac{10}{19}$ days (v) $8\frac{8}{21}$ days

Assignment Key

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