EduSahara™ Assignment

Name : Compound Ratio

Chapter : Comparing Quantities using Proportion

Grade : SSC Grade VIII

1. Find the compound ratio of $1:14$ and $18:20$

   (i) $18:280$ (ii) $18:278$ (iii) $17:280$ (iv) $18:283$ (v) $19:280$

2. Find the compounded ratio of $m:u$ and $w:x$

   (i) $u:wx$ (ii) $mu:wx$ (iii) $xw:mu$ (iv) $mw:ux$ (v) $w:mu$

3. Saraswathi and Fathima started a business with capitals of ₹12000.00 and ₹10000.00 respectively and made a profit of ₹18700.00 at the end of the year. Find the share of each.

   (i) Saraswathi's share = ₹8943.48, Fathima's share = ₹9756.52

   (ii) Saraswathi's share = ₹8500.00, Fathima's share = ₹10200.00

   (iii) Saraswathi's share = ₹11050.00, Fathima's share = ₹7650.00

   (iv) Saraswathi's share = ₹11900.00, Fathima's share = ₹6800.00

   (v) Saraswathi's share = ₹10200.00, Fathima's share = ₹8500.00

4. Kajal started a business with a capital of ₹9000.00 and Bharathi joined her sometime later with a capital of ₹8000.00. Out of the total annual profit of ₹13000.00, if Kajal's share is ₹9000.00, when did Bharathi join as partner?

   (i) Bharathi joined as partner after 5 months (ii) Bharathi joined as partner after 9 months

   (iii) Bharathi joined as partner after 6 months (iv) Bharathi joined as partner after 8 months

   (v) Bharathi joined as partner after 10 months

5. Vikram and Aishwarya started a business with a total investment of ₹25000.00. If the total profit of ₹30000.00 is divided equally instead of dividing in the ratio of their investments, Vikram gets ₹600.00 more . What is the share of each partner?

   (i) ₹12200.00, ₹12800.00 (ii) ₹12400.00, ₹12600.00 (iii) ₹12100.00, ₹12900.00 (iv) ₹12300.00, ₹12700.00

   (v) ₹12000.00, ₹13000.00

6. Kareena and Vikram started a business with a total investment of ₹32000.00. Out of the total profit of ₹240000.00 at the end of the year, keeping ₹168000.00 for managing the business, the balance is divided in the ratio of their investments. If Vikram gets ₹9000.00 less than Kareena, find their investments.

   (i) ₹18200.00, ₹13800.00 (ii) ₹18000.00, ₹14000.00 (iii) ₹18300.00, ₹13700.00 (iv) ₹18100.00, ₹13900.00

   (v) ₹18400.00, ₹13600.00

7. Ankitha and Lakshmi started a business with equal capital. But Lakshmi withdrew from the business at the end of 7 months. If at the end of the year, they made a profit of ₹32300.00, find the share of each.

   (i) Ankitha's share = ₹20400.00, Lakshmi's share = ₹11900.00

   (ii) Ankitha's share = ₹18457.14, Lakshmi's share = ₹13842.86

   (iii) Ankitha's share = ₹16852.17, Lakshmi's share = ₹15447.83

   (iv) Ankitha's share = ₹21533.33, Lakshmi's share = ₹10766.67

   (v) Ankitha's share = ₹17618.18, Lakshmi's share = ₹14681.82

8. Ayush started a business. After some time Raju joined him.
The ratio of their investments is $3:4$.
If their profits at the end of the year are equal,
find when Raju joined the business.

(i) 3 months later (ii) 7 months later (iii) 5 months later (iv) 2 months later (v) 6 months later

9. Maya started a business. After some time Soundarya joined her.
The ratio of their investments is $9:10$. If their profits
at the end of the year are ₹37800.00 and ₹35000.00 respectively,
find when Soundarya joined the business.

(i) 2 months later (ii) 1 months later (iii) 5 months later (iv) 4 months later (v) 6 months later

10. The work done by (15x) men in (x) days and work done by (14x) men in (2x) days is in the ratio of 15 : 28 . Find the value of x

(i) 4 (ii) (-1) (iii) 3 (iv) 1 (v) 2

11. 20 men can do a work in 15 days working 8 hours a day.
In how many days can 20 men do the same work, working 6 hours a day?

(i) 19 days (ii) 23 days (iii) 18 days (iv) 21 days (v) 20 days

Assignment Key

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