EduSahara™ Assignment

Name : Compound Ratio

Chapter : Comparing Quantities using Proportion

Grade : SSC Grade VIII

1. Find the compound ratio of $1:20$ and $15:14$

   (i) $15:280$ (ii) $14:280$ (iii) $15:278$ (iv) $15:282$ (v) $16:280$

2. Find the compounded ratio of $i:r$ and $l:f$

   (i) $r:lf$ (ii) $fl:ir$ (iii) $il:rf$ (iv) $ir:lf$ (v) $l:ir$

3. Mumtaz and Martin started a business with capitals of ₹11000.00 and ₹8000.00 respectively and made a profit of ₹19000.00 at the end of the year. Find the share of each.

   (i) Mumtaz's share = ₹12000.00, Martin's share = ₹7000.00

   (ii) Mumtaz's share = ₹9000.00, Martin's share = ₹10000.00

   (iii) Mumtaz's share = ₹13000.00, Martin's share = ₹6000.00

   (iv) Mumtaz's share = ₹11000.00, Martin's share = ₹8000.00

   (v) Mumtaz's share = ₹9500.00, Martin's share = ₹9500.00

4. Rajini started a business with a capital of ₹5000.00 and Sujatha joined her sometime later with a capital of ₹15000.00. Out of the total annual profit of ₹4500.00, if Rajini's share is ₹1800.00, when did Sujatha join as partner?

   (i) Sujatha joined as partner after 9 months (ii) Sujatha joined as partner after 10 months

   (iii) Sujatha joined as partner after 5 months (iv) Sujatha joined as partner after 8 months

   (v) Sujatha joined as partner after 6 months

5. Kareena and Fathima started a business with a total investment of ₹18000.00. If the total profit of ₹8100.00 is divided equally instead of dividing in the ratio of their investments, Kareena gets ₹450.00 less . What is the share of each partner?

   (i) ₹10200.00, ₹7800.00 (ii) ₹10100.00, ₹7900.00 (iii) ₹10300.00, ₹7700.00 (iv) ₹10400.00, ₹7600.00

   (v) ₹10000.00, ₹8000.00

6. Fathima and John started a business with a total investment of ₹31000.00. Out of the total profit of ₹93000.00 at the end of the year, keeping ₹46500.00 for managing the business, the balance is divided in the ratio of their investments. If John gets ₹10500.00 less than Fathima, find their investments.

   (i) ₹19200.00, ₹11800.00 (ii) ₹19300.00, ₹11700.00 (iii) ₹19400.00, ₹11600.00 (iv) ₹19000.00, ₹12000.00

   (v) ₹19100.00, ₹11900.00

7. Karishma and Martin started a business with equal capital. But Martin withdrew from the business at the end of 7 months. If at the end of the year, they made a profit of ₹22800.00, find the share of each.

   (i) Karishma's share = ₹15200.00, Martin's share = ₹7600.00

   (ii) Karishma's share = ₹11895.65, Martin's share = ₹10904.35

   (iii) Karishma's share = ₹13028.57, Martin's share = ₹9771.43

   (iv) Karishma's share = ₹12436.36, Martin's share = ₹10363.64

   (v) Karishma's share = ₹14400.00, Martin's share = ₹8400.00

8. Murali started a business. After some time Sai joined him.
The ratio of their investments is $2:3$.
If their profits at the end of the year are equal,
find when Sai joined the business.

(i) 8 months later (ii) 4 months later (iii) 6 months later (iv) 7 months later (v) 3 months later

9. Jasmine started a business. After some time Dolly joined her.
The ratio of their investments is $20:17$. If their profits
at the end of the year are ₹312000.00 and ₹154700.00 respectively,
find when Dolly joined the business.

(i) 9 months later (ii) 4 months later (iii) 8 months later (iv) 5 months later (v) 7 months later

10. The work done by (2x) men in (22x + 1) days and work done by (24x + 1) men in (x + 1) days is in the ratio of 60 : 49 . Find the value of x

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

11. 15 men can do a work in 12 days working 4 hours a day.
In how many days can 14 men do the same work, working 5 hours a day?

(i) $10\frac{2}{9}$ days (ii) $10\frac{2}{5}$ days (iii) $10\frac{4}{7}$ days (iv) 10 days (v) $10\frac{2}{7}$ days

Assignment Key

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