Name: Compound Ratio

Chapter: Comparing Quantities using Proportion

Grade: SSC Grade VIII

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- 1. Find the compound ratio of 16:17 and 7:8
 - (i) 113:136 (ii) 112:134 (iii) 112:139 (iv) 112:136 (v) 111:136
- 2. Find the compounded ratio of p:kande:h
 - (i) pk:eh (ii) k:eh (iii) he:pk (iv) pe:kh (v) e:pk
- Praveen and Rizvana started a business with capitals of ₹17000.00 and ₹12000.00 respectively and made a profit of ₹5800.00 at the end of the year. Find the share of each.
 - (i) Praveen's share = ₹3093.33, Rizvana's share = ₹2706.67
 - (ii) Praveen's share = ₹3600.00, Rizvana's share = ₹2200.00
 - (iii) Praveen's share = ₹3800.00, Rizvana's share = ₹2000.00
 - (iv) Praveen's share = 3400.00, Rizvana's share = 2400.00
 - (v) Praveen's share = ₹3000.00, Rizvana's share = ₹2800.00
- Maya started a business with a capital of ₹10000.00 and Sarojini joined her sometime later with a capital of 4. ₹8000.00. Out of the total annual profit of ₹20900.00, if Maya's share is ₹16500.00, when did Sarojini join as partner?
 - (i) Sarojini joined as partner after 8 months (ii) Sarojini joined as partner after 1 months
 - (iii) Sarojini joined as partner after 11 months (iv) Sarojini joined as partner after 7 months
 - (v) Sarojini joined as partner after 10 months
- Vimala and Arun started a business with a total investment of ₹21000.00. If the total profit of ₹18900.00 is divided 5. equally instead of dividing in the ratio of their investments, Vimala gets ₹2250.00 more . What is the share of each partner?
 - (i) ₹8200.00, ₹12800.00 (ii) ₹8000.00, ₹13000.00 (iii) ₹8400.00, ₹12600.00 (iv) ₹8300.00, ₹12700.00
 - (v) ₹8100.00, ₹12900.00
- Anil and Rizvana started a business with a total investment of ₹33000.00. Out of the total profit of ₹154000.00 at 6. the end of the year, keeping ₹46200.00 for managing the business, the balance is divided in the ratio of their investments. If Rizvana gets ₹9800.00 less than Anil, find their investments.
 - (i) ∓ 18300.00 , ∓ 14700.00 (ii) ∓ 18100.00 , ∓ 14900.00 (iii) ∓ 18000.00 , ∓ 15000.00 (iv) ∓ 18400.00 , ∓ 14600.00
 - (v) ₹18200.00, ₹14800.00
- 7. Vimala and Ankitha started a business with equal capital. But Ankitha withdrew from the business at the end of 1 months. If at the end of the year, they made a profit of ₹23400.00, find the share of each.
 - (i) Vimala's share = ₹17550.00, Ankitha's share = ₹5850.00
 - (ii) Vimala's share = ₹21600.00, Ankitha's share = ₹1800.00
 - (iii) Vimala's share = ₹18720.00, Ankitha's share = ₹4680.00
 - (iv) Vimala's share = \$16517.65, Ankitha's share = \$6882.35
 - (v) Vimala's share = ₹23400.00, Ankitha's share = ₹0.00

Charan started a business. After some time Hari joined him. The ratio of their investments is 1:3.

- 8. If their profits at the end of the year are equal, find when Hari joined the business.
 - (i) 7 months later (ii) 1 months later (iii) 10 months later (iv) 8 months later (v) 11 months later

Parvathi started a business. After some time Swathi joined her.

- 9. The ratio of their investments is 17:5 . If their profits at the end of the year are₹204000.00 and₹10000.00 respectively, find when Swathi joined the business.
 - (i) 10 months later (ii) 3 months later (iii) 2 months later (iv) 9 months later (v) 1 months later
- 10. The work done by (3x) men in (5x) days and work done by (x + 1) men in (16x + 1) days is in the ratio of 135 : 196 . Find the value of x
 - (i) 6 (ii) 3 (iii) 2 (iv) 0 (v) 4
- 13 men can do a work in 12 days working 3 hours a day.
 In how many days can 11 men do the same work, working 9 hours a day?
 - (i) $4\frac{6}{11}$ days (ii) $4\frac{8}{9}$ days (iii) $4\frac{10}{11}$ days (iv) $4\frac{8}{13}$ days (v) $4\frac{8}{11}$ days

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

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