EduSahara™ Learning Center Assignment

Grade   : Class VIII, SSC
Chapter   : Comparing Quantities using Proportion
Name   : Compound Ratio
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1. Find the compound ratio of 15 : 3 and 19 : 9

   (i) 286 : 27 (ii) 284 : 27 (iii) 285 : 27 (iv) 285 : 30 (v) 285 : 24

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2. Find the compounded ratio of u : k and y : m

   (i) uk : ym (ii) u y : k m (iii) y : uk (iv) my : uk (v) k : ym

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3. Parvathi and Abhishek started a business with capitals of ₹7000.00 and ₹12000.00 respectively and made a profit of ₹24700.00 at the end of the year. Find the share of each.

   (i)   Parvathi's share = ₹10400.00, Abhishek's share = ₹14300.00

   (ii) Parvathi's share = ₹7410.00, Abhishek's share = ₹17290.00

   (iii) Parvathi's share = ₹6500.00, Abhishek's share = ₹18200.00

   (iv) Parvathi's share = ₹11700.00, Abhishek's share = ₹13000.00

   (v) Parvathi's share = ₹9100.00, Abhishek's share = ₹15600.00

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4. Ankitha started a business with a capital of ₹18000.00 and Parvathi joined her sometime later with a capital of ₹15000.00. Out of the total annual profit of ₹85400.00, if Ankitha's share is ₹50400.00, when did Parvathi join as partner?

   (i)   Parvathi joined as partner after 2 months

   (ii) Parvathi joined as partner after 6 months

   (iii) Parvathi joined as partner after 4 months

   (iv) Parvathi joined as partner after 1 months

   (v) Parvathi joined as partner after 5 months

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5. Karthik and Rizvana started a business with a total investment of ₹25000.00. If the total profit of ₹50000.00 is divided equally instead of dividing in the ratio of their investments, Karthik gets ₹13000.00 less . What is the share of each partner?

   (i)   ₹19400.00, ₹5600.00

   (ii) ₹19300.00, ₹5700.00

   (iii) ₹19000.00, ₹6000.00

    (iv) ₹19100.00, ₹5900.00

    (v) ₹19200.00, ₹5800.00

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6. Kumar and Mallika started a business with a total investment of ₹27000.00. Out of the total profit of ₹27000.00 at the end of the year, keeping ₹10800.00 for managing the business, the balance is divided in the ratio of their investments. If Mallika gets ₹4200.00 more than Kumar, find their investments

    (i) ₹10200.00, ₹16800.00 (ii) ₹10300.00, ₹16700.00 (iii) ₹10000.00, ₹17000.00

    (iv) ₹10400.00, ₹16600.00 (v) ₹10100.00, ₹16900.00

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7. Praveen and Mallika started a business with equal capital. But Mallika withdrew from the business at the end of 3 months. If at the end of the year, they made a profit of ₹9500.00, find the share of each

    (i) Praveen's share = ₹6333.33, Mallika's share = ₹3166.67

    (ii) Praveen's share = ₹7600.00, Mallika's share = ₹1900.00

    (iii) Praveen's share = ₹6000.00, Mallika's share = ₹3500.00

    (iv) Praveen's share = ₹6705.88, Mallika's share = ₹2794.12

    (v) Praveen's share = ₹8142.86, Mallika's share = ₹1357.14

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8. Naveen started a business. After some time Arun joined him.

The ratio of their investments is $1 : 3$.

If their profits at the end of the year are equal,

find when Arun joined the business.

    (i) 8 months later

    (ii) 1 months later

    (iii) 11 months later

    (iv) 7 months later

    (v) 10 months later

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9. Keerthi started a business. After some time Parvathi joined her.

The ratio of their investments is $7 : 13$. If their profits

at the end of the year are ₹109200.00 and ₹16900.00 respectively,

find when Parvathi joined the business.

    (i) 10 months later

    (ii) 11 months later

    (iii) 2 months later

(iv) 4 months later

(v) 3 months later

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10. The work done by (19x) men in (2x + 1) days and work done by (x + 1) men in (24x + 1) days is in the ratio of 190 : 147 . Find the value of x

(i) 1 (ii) 2 (iii) 5 (iv) (−1) (v) 3

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11. 20 men can do a work in 19 days working 4 hours a day.

In how many days can 20 men do the same work, working 4 hours a day?

(i) 19 days (ii) 18 days (iii) 21 days (iv) 16 days (v) 20 days

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Assignment Key

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