





**Quantitative Aptitude** 

DPP 03 Discussion Notes
Mixtures Alligations

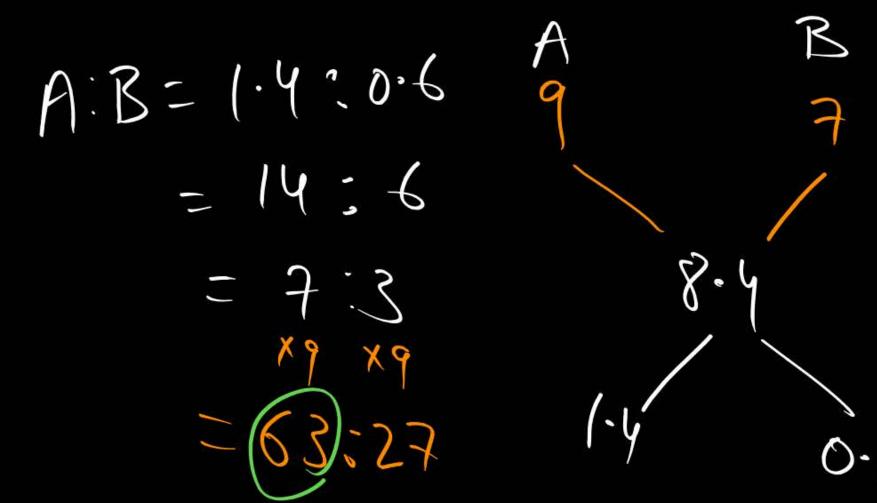






How many Kg of rice costing ₹9 per kg must be mixed with 27 kg of rice costing ₹7 per kg so that there may be gain of 10% by selling the mixture at ₹9.24 per kg? 7

- (A) 63 kg
- B 42 kg
- **C** 54 kg
- **D** 36 kg





Two vessels P and Q contain milk and water mixed in the ratio 8:5 and 5:2 respectively. In what ratio these two mixtures are to be

mixed to get a new mixture containing  $69\frac{3}{13}$ % milk?

$$\mathbf{C}$$
 5:2

ew mixture containing 
$$69\frac{7}{13}$$
 /milk?
$$P : 9 = \frac{2}{9} : \frac{1}{13}$$

$$= \frac{960}{1380}$$

$$= 2 : 7$$

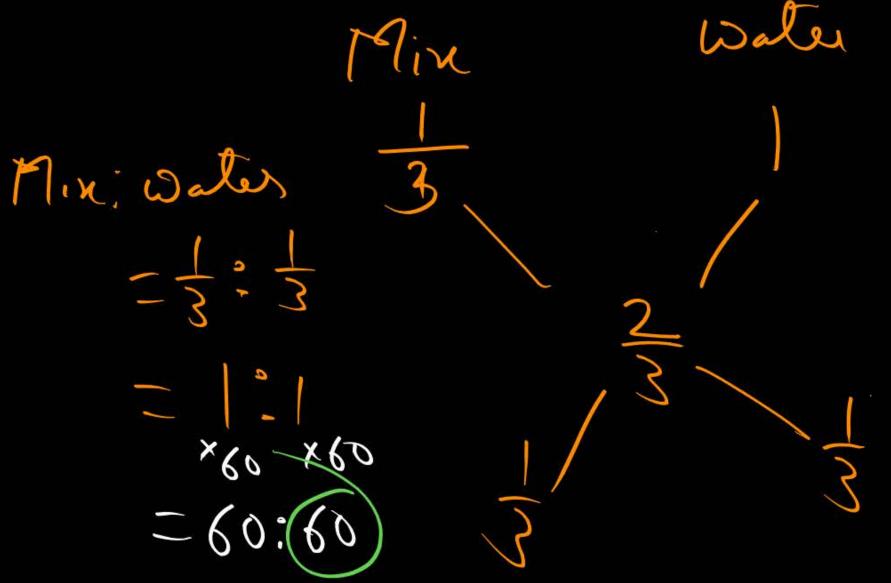
$$= \frac{9}{13}$$

$$\frac{2}{91} = \frac{65 - 63}{91} = \frac{3}{5} - \frac{3}{9}$$



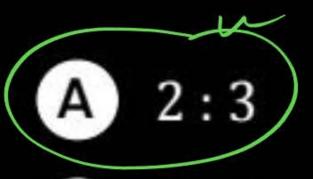
In a mixture of 60 litres, the ratio of milk and water is 21 What amount of water must be added to make the ratio of milk and water as 1:2?

- A 56 litres
- B 42 litres
- C 60 litres
- D 77 litres

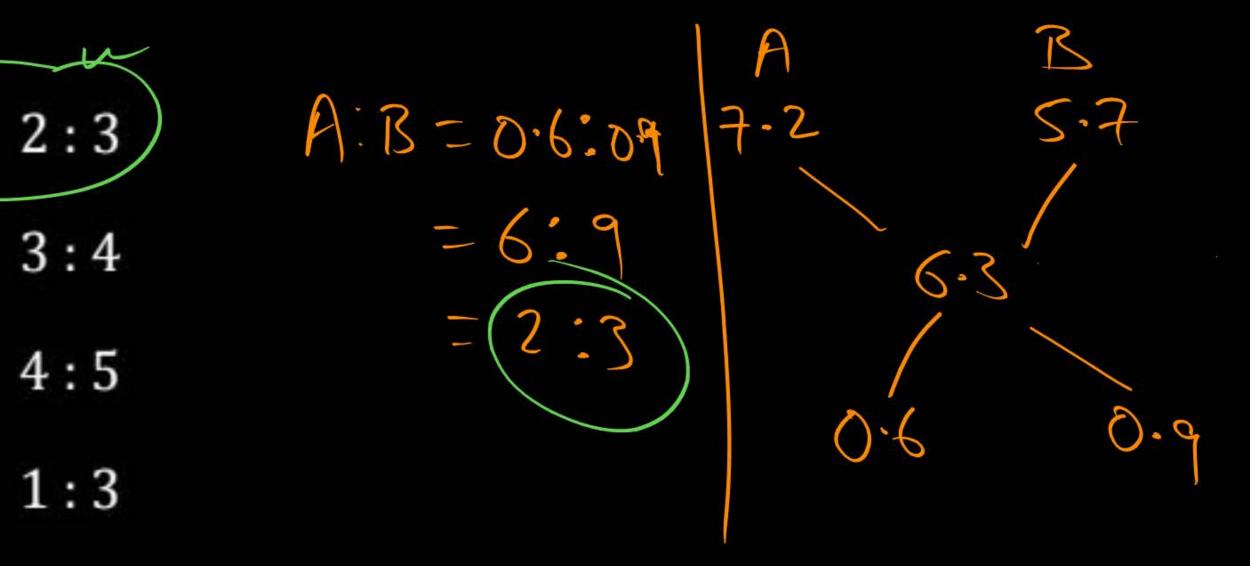




Find the ratio in which sugar at ₹7.20 a kg be mixed with sugar at ₹5.70 a kg to produce a mixture worth ₹6.30 a kg.



- 3:4

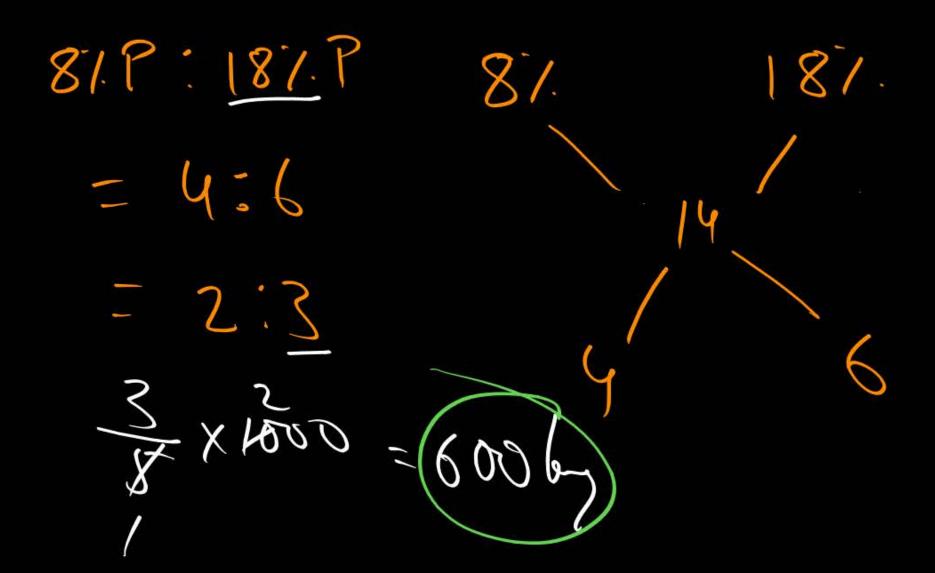




A merchant has 1000 kg of wheat flour, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. Find the quantity he sold at 18% profit.

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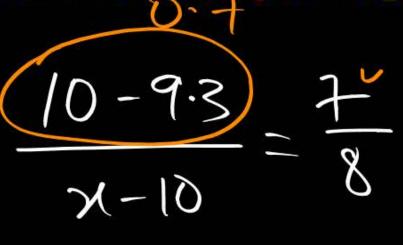
- A 400 kg
- B 560 kg
- **C** 600 kg
- D 640 kg

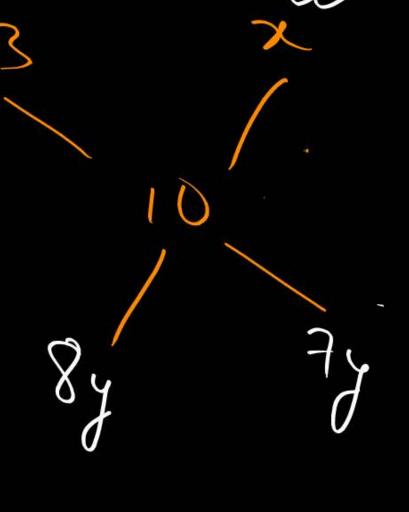




One quality of sugar at ₹9.30 per kg mixed with another quality at a certain rate in the ratio 8:7. If the mixture so formed be worth ₹10 per kg, what is the rate per kg of the second quality of sugar?

- A ₹10.30
- B ₹10.60
- © ₹10.80
  - D ₹11

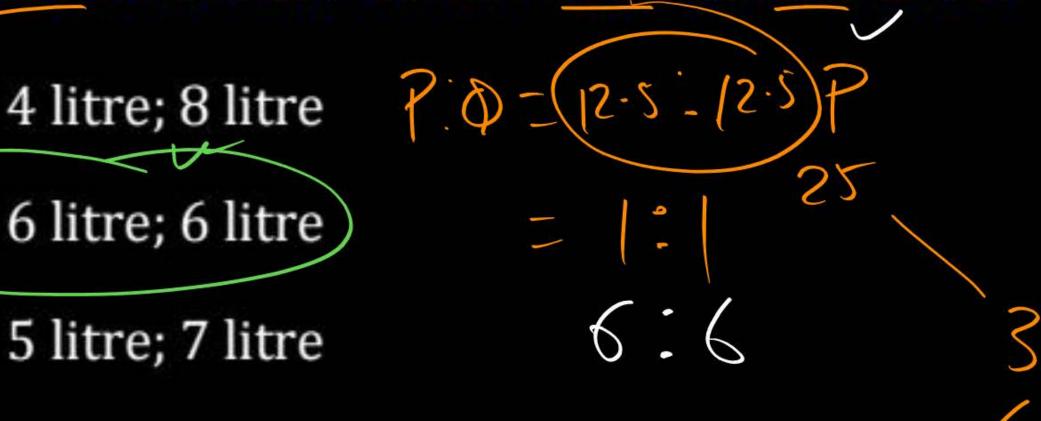


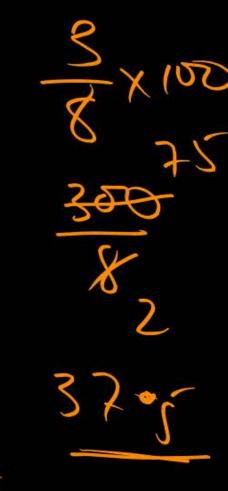




A milk vendor hs two cans of milk. The first contains 25% water and rest milk. The second 50% water. How much quantity should be mixed from each of the containers so as to get 12 litre of mixture where the ratio of water to milk is 3:5?

- 6 litre; 6 litre
- 5 litre; 7 litre
- 7 litre; 5 litre

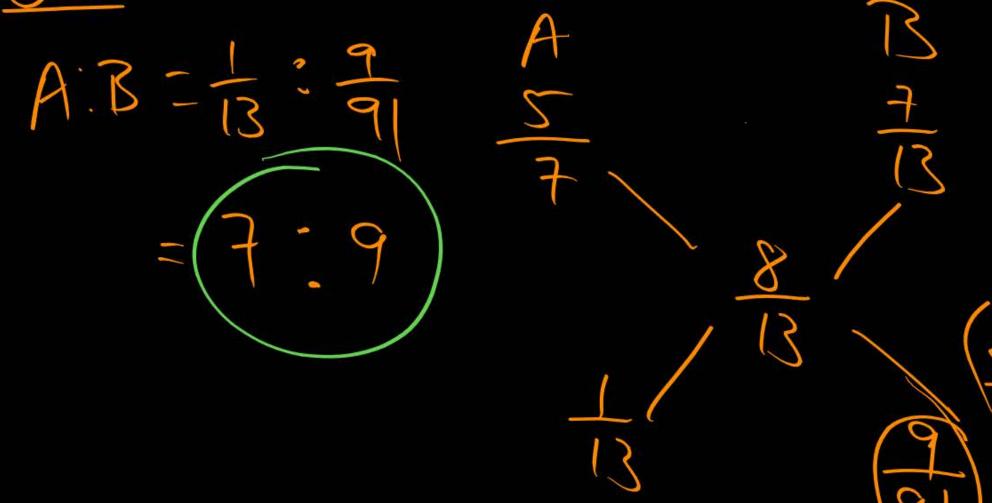






Two vessels A and B contain Spirit and Water mixed in the ratio 5:2 and 7:6 respectively. Find the ratio in which these mixtures be mixed to obtain a new mixture in vessel C containing spirit and water in the ratio 8:5.

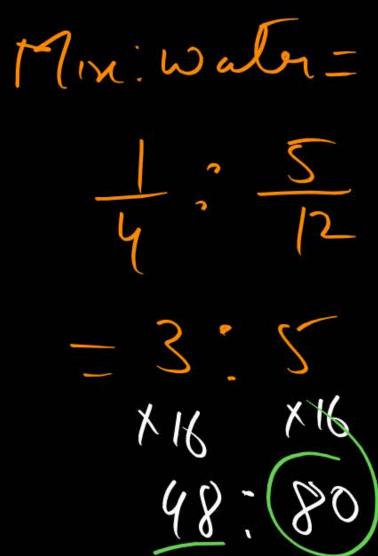
- A 4:3
- B 3:4
- C 5:6 7:9

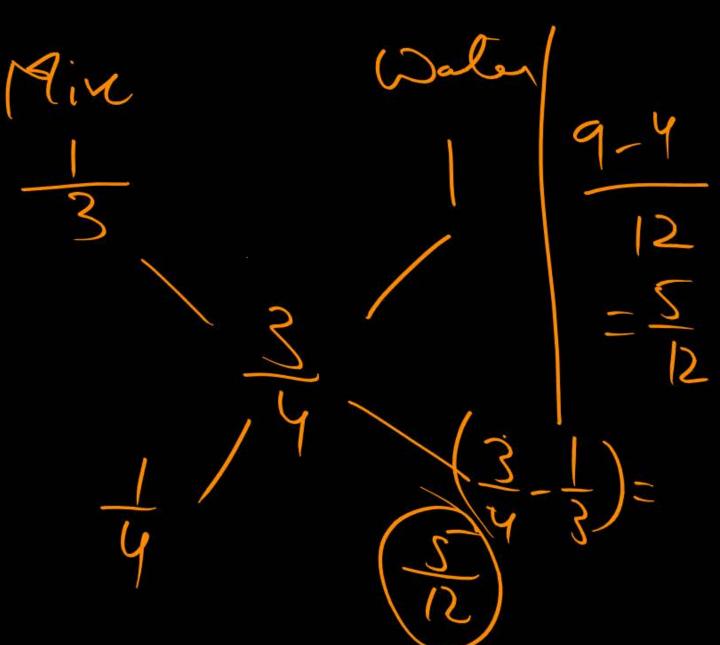




In a mixture of 48 litre, the ratio of milk and water is 2:1, if this ratio is to be 1:3 then what is the quantity of water to be further added?

- A 96 litre
- B 72 litre
- C 60 litre
- D 80 litre







In what ratio must a grocer mix two verities of rice worth ₹40 per kg and ₹48 per kg so that by selling the mixture at ₹50.6 per kg he may gain 10%?

