

BHARAT SCHOOL OF BANKING

MIXTURE AND ALLEGATION

1. A can contains a mixture of two liquids A and B in the ratio 7:5 when 9 litres of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially?

- A. 28 litres
- B. 21 litres
- C. 45 litres
- D. 36 litres

2. A man travelled a distance of 90Km in 9 hours partly on foot at 8 kmph and partly on bicycle at 17 kmph. Find the distance travelled on foot.

- A. 46 km
- B. 56 km
- C. 62 km
- D. 52 km

3. A milk vendor has 2 cans of milk. The first contains 25% water and the rest milk. The second contains 50% water. How much milk should he mix from each of the container so as to get 12 litres of milk such that the ratio of water to milk is 3:5?

- A. 6 litres
- B. 1 litres
- C. 8 litres
- D. 7 litres

4. In what ratio must a person mix three kinds of wheat costing him Rs 1.20, Rs 1.44 and Rs 1.74 per Kg so that the mixture may be worth Rs 1.41 per Kg?

- A. 11:77:7
- B. 25:45:8
- C. 27:23:6
- D. 11:45:7

5. A painter mixes blue paint with white paint so that the mixture contains 10% blue paint. In a mixture of 40 litres paint how many litres blue paint should be added so that the mixture contains 20% of blue paint.

- A. 2.5 litres
- B. 4 litres
- C. 5 litres
- D. 2 litres

Answers

1. (B) Let initially contained $7x$ & $5x$

So,

$$(7x - 9/12 * 7) / (5x - 9/12 * 5 + 9) = 7/9$$

$$(12x - 9) / (60x + 63) = 1/9$$

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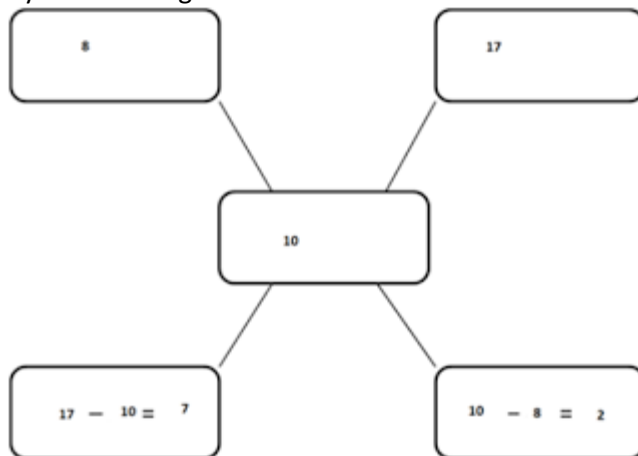
$$x=3$$

Required Quantity = $7x = 7 \times 3 = 21$ litres

2. (B) Average Speed = $90/9 = 10$ kmph

So,

By Rule of Allegations



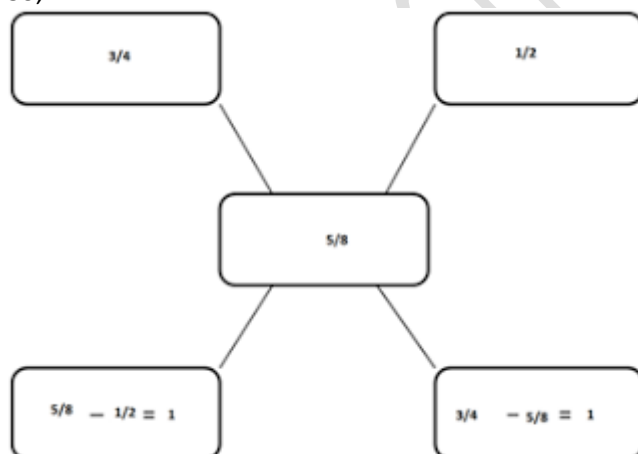
Required Distance = $7 \times 8 = 56$ km

3. (A) Milk in 1st can = $\frac{3}{4}$

Milk in 2nd can = $\frac{1}{2}$

Milk in Resultant mixture = $\frac{5}{8}$

So,



$$1 + 1 = 12$$

$$2 = 12$$

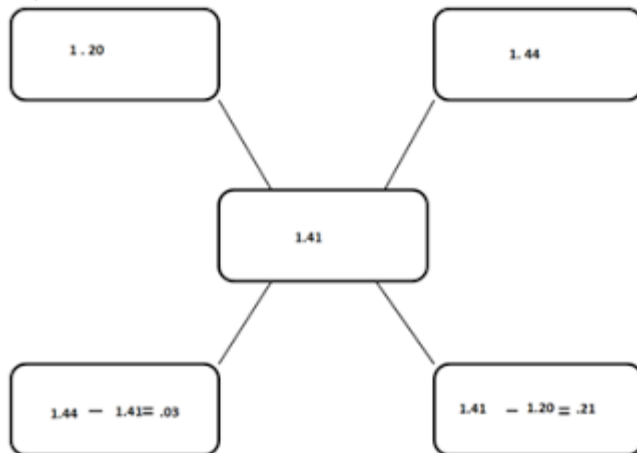
$$1 = 6 \text{ liter}$$

4. (A) In first case, We take 1. 20, 1.44 & 1. 41

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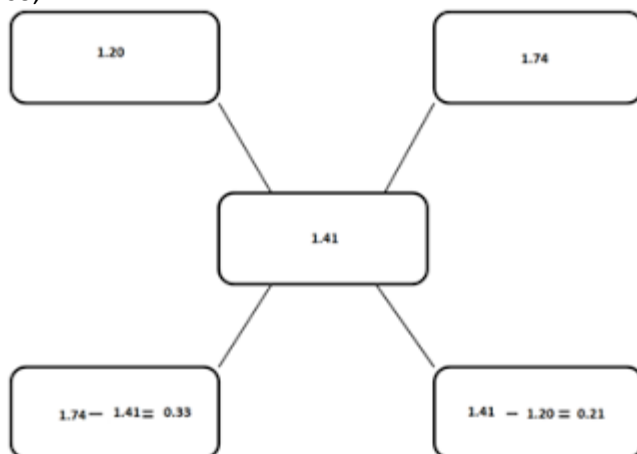
So,



1:7

In second case, We take 1.20, 1.74 & 1.41

so,



11 : 7

Since I : II = 1 : 7 = 1.7

I : III = 11 : 7

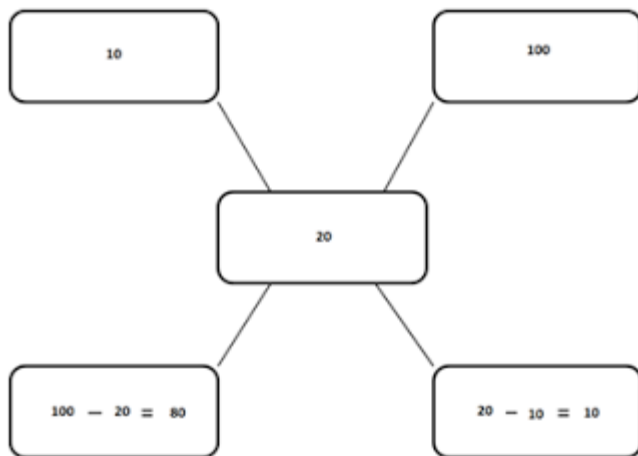
So, I : II : III = 11 : 77 : 7

5. (C) Percentage of blue point, in pure Blue point = 100%

So,

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8 : 1
Since 8 = 40
1 = 5 liters

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