HeMantra EduTech

Math : Allegation

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Q.1

A trader mixes two varieties of rice costing 30 rs/kg and 50 rs/kg in the ratio 3 : 2 . Find the price of the mixture per kg ?

Q.2

A milk mixes water with milk . The C.P of milk is 25 rs/lr and the C.P of water is 0 rs/lr . If the price of the final mixture is 20 rs/lr . Find the ratio of milk to water .

Q.3

In what ratio should tea worth 200 rs/kg . be mixed with tea worth 300 rs/kg to get a mixture worth 240 rs/kg ?

Q.4

A 40 lr mixture contains milk and water in the ratio of 3 : 1 . If 10 lr of the mixture is removed and replaced with water , what will be the new to work ?

Q.5

How much water must be added to 60 lr of milk priced at 30 rs/lr to reduce the price to 20 rs/lr .

Q.6

A shopkeeper mixes 3 types of pulses costing 50 rs/kg , 80 rs/kg , and 100 rs/kg is the ratio 2 : 3 : 5 , find the cost price of the final mixture ?

Q.7

A 80 lr solution of milk and water has milk to water in the ratio 5 : 1 . If 10 lr of the mixture is removed and replaced with water , and this process is repeated twice ,
Find the new ratio of milk to water ?

Q.8

In what ratio must rice at ₹ 9.30 per kg be mixed with rice at ₹ 10.80 per kg so that the mixture be worth ₹ 10 per kg ?

Q.9

. *How much water must be added to 60 litres of milk at* $1\frac{1}{2}$ *litres for* ₹ *20 so as to have a mixture worth* ₹ $10\frac{2}{3}$ *a litre ?*

Q.10

In what ratio must water be mixed with milk to gain 20% by selling the mixture at cost price ?

Q.11

How many kgs. of wheat costing ₹ 8 per kg must be mixed with 36 kg of rice costing ₹ 5.40 per kg so that 20% gain may be obtained by selling the mixture at ₹ 7.20 per kg ?

Q.12

The milk and water in two vessels A and B are in the ratio 4 : 3 and 2 : 3 respectively. In what ratio, the liquids in both the vessels be mixed to obtain a new mixture in vessel C containing half milk and half water ?