

AVERAGES, MIXTURES & ALLEGATION – WORKSHEET (PROGRESSIVE)

Q 1: The average temperature of 1 April to 20 April is 30 degree and the average temperature from 20 April to 30 April is 40 degree. If the temperature on 20 April is 20 degree. Find the average temperature of April?

- (a) 33 degree (b) 33.5 degree (c) 34 degree (d) None of these

Q 2: The geometric mean of first 10 numbers of a series is 80 and the geometric mean of next 20 numbers is 10. Find the geometric mean of all 30 numbers?

- (a) 20 (b) 10 (c) 30 (d) None of these

Q 3: The average temperature of the first three days is 27 degree and that of the next three days is 29 degree. If the average of the whole week is 28.5 degree, the temperature of the last day of the week is:

- (a) 10.5 degree (b) 21 degree (c) 31.5 degree (d) 42 degree

Q 4: The average weight of a class of 40 students is 40 kg. If the weight of the teacher is included, the average weight increases by 500 grams. The weight of the teacher is:

- (a) 40.5 kg (b) 60 kg (c) 60.5 kg (d) 62 kg

Q 5: The average weights of 8 boxers are increased by 2.5 kg, when one of them whose weight is 56 kg is replaced by a new boxer. The weight of the new boxer is:

- (a) 66 kg (b) 75 kg (c) 76 kg (d) 86 kg

Q 6: The average age of an adult class is 40 yrs. 12 new students with an average of 32 yrs join the class, thereby decreasing the average by 4 yrs. The original strength of the class was:

- (a) 10 (b) 11 (c) 12 (d) 15

Q 7: The average of 6 observations is 12. A new seventh observation is included and the new average is decreased by 1. The seventh observation is:

- (a) 1 (b) 3 (c) 5 (d) 6

Q 8: Out of four numbers, the average of first three is 15 and that of the last three is 16. If the last number is 19, the first is:

- (a) 15 (b) 16 (c) 18 (d) 19

Q 9: 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?

- (a) 5 : 7 (b) 7 : 5 (c) 1 : 1 (d) None of these

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

- (a) Rs. 10.30 (b) 10.60 (c) Rs. 10.80 (d) Rs. 11

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Q 11: How many kilograms of sugar costing Rs.6.10 per kg must be mixed with 126 kg of sugar costing Rs. 2.85 per kg so that 20% may be gained by selling the mixture at Rs. 4.80 per kg.?

- (a) 23 kg (b) 43 kg (c) 69 kg (d) 16 kg

Q 12: Two vessels A and B contain milk and water mixed in the ratio 8:5 and 5:2 respectively. The ratio in which these 2 mixtures be mixed to get a new mixture containing $69\frac{3}{13}$ % milk is:

- (a) 3:4 (b) 2:7 (c) 7:9 (d) 4:3

Q 13: 729 ml of mixture contains milk and water in the ratio 7:2 how much more water is to be added to get a new mixture containing milk and water in the ratio 7:3?

- (a) 70ml (b) 49ml (c) 81ml (d) 96ml

Q 14: In what ratio must wheat at Rs.3.20 per kg be mixed with wheat at Rs.2.90 per kg so that the mixture be worth Rs.3.08 per kg

- (a) 5:7 (b) 7:9 (c) 3:2 (d) 7:5

Q 15: How many litres of a 12 litre mixture containing milk and water in the ratio of 2 : 3 be replaced with pure milk so that the resultant mixture contains milk and water in equal proportion?

- (a) 4 liters (b) 2 liters (c) 1 liter (d) 1.5 liters

16. How many kg of Basmati rice costing Rs.42/kg should a shopkeeper mix with 25 kg of ordinary rice costing Rs.24 per kg so that he makes a profit of 25% on selling the mixture at Rs.40/kg?

- (a) 20 kg (b) 12.5 kg (c) 16 kg (d) 200 kg

Q 17: A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is:

- (a) 400 kg (b) 560 kg (c) 600 kg (d) 640 kg

Q 18: How many liters of water should be added to a 30 litre mixture of milk and water containing milk and water in the ratio of 7 : 3 such that the resultant mixture has 40% water in it?

- (a) 7 liters (b) 10 liters (c) 5 liters (d) None of these

Q 19: A 20 liter mixture of milk and water contains milk and water in the ratio 3: 2. 10 liters of the mixture is removed and replaced with pure milk and the operation is repeated once more. At the end of the two removals and replacement, what is the ratio of milk and water in the resultant mixture?

- (a) 17 : 3 (b) 9 : 1 (c) 3 : 17 (d) 5 : 3

Q 20: From a cask of milk containing 30 litres, 6 litres are drawn out and the cask is filled up with water. If the same process is repeated a second, then a third time, what will be the number of litres of milk left in the cask?

- (a) 0.512 liters (b) 12 liters (c) 14.38 liters (d) 15.36 liters

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