

AVERAGE

To find average of any number of quantities of the same kind is to add all the items together and then divide the sum by the number of items.

$$\text{Average} = \frac{\text{Sum of all items}}{\text{No. of items}}$$

Some Unsolved Examples -

Example 1- A batsman has a certain average runs for 16 innings. In the 17th inning he made score of 85 runs thereby his average is increased by 3. What is his average after 17th inning ?

Example 2- A man has 7 children. When their average age was 12 years, the child who was 6 years of age, died. What was the average age of surviving children 5 years after the death of the above child ?

EXERCISE

1. The average of the following five numbers is 8. Find the missing number in

7, 5, ?, 3, 12.

- | | |
|-------------------|--------|
| (a) 14 | (b) 8 |
| (c) 13 | (d) 12 |
| (e) None of these | |

2. The average weight of A, B and C is 45 kg that of A and B is 40 kg and of B and C is 43 kg. What is the weight of B ?

- | | |
|-------------------|-----------|
| (a) 17 kg | (b) 26 kg |
| (c) 20 kg | (d) 31 kg |
| (e) None of these | |

3. The average of the first three numbers is double of the fourth number. If the average of all the four numbers is 12, find the 4th number.
- (a) 16 (b) 48/7
(c) 20 (d) 18
(e) None of these
4. Anil took 4 tests during first year. His average on them was 76. He took 3 tests during the second year. His average on them was 81. What was his over all average for both years ?
- (a) 572/7 (b) 539/7
(c) 536/7 (d) 547/4
(e) None of these
5. A cyclist rides 24 km at 16 km per hour and a further 36 km at 15 km per hour. Find his average speed for the journey.
- (a) 15.38 km per hour
(b) 16 km per hour
(c) 15.5 km per hour
(d) 16.38 km per hour
(e) None of these
6. A certain factory employed 600 men and 400 women and average wage was Rs. 2.55 per day. If a woman got 50 p. less than a man, what were their daily wages ?
- (a) Man Rs. 2.75, woman Rs. 2.25
(b) Man Rs. 3.25, woman Rs. 2.75
(c) Man Rs. 3, woman Rs. 2.50
(d) Man Rs. 2.50 woman Rs. 2
(e) None of these

7. If a train maintains an average speed of 40 km an hour it arrives at its destination punctually. If however the average speed is 35 km an hour it arrives 15 minutes late. Find the length of the journey in km.
- (a) 40 (b) 70
(c) 30 (d) 80
(e) None of these
8. The average weight of three men A, B, C is 84 km and fourth man D joins them the average weight of the four becomes 80 km. If E whose wt. is 3 kg more than D replaces A, then the average wt. of B, C, D and E becomes 79 kg. Find the weight of A.
- (a) 75 kg (b) 80 kg
(c) 70 kg (d) 85 kg
(e) None of these
9. A man walks from P to Q at the rate of 5 km an hour and returns from Q to P at the rate of 3 km an hour. What is the average rate in km per hour for the whole journey ?
- (a) 4 (b) $15/4$
(c) $1/4$ (d) $9/2$
(e) None of these
10. A ship 40 km from shore springs a leak which admits $3\frac{3}{4}$ quintals of water in 12 minutes. 60 quintals would suffice to sink the ship, But its pump can throw out 12 quintals of water in one hour. Find the average rate of sailing so that it may reach the shore just it begins to sink.
- (a) 4 km / h (b) 4.5 km / h
(c) 5 km / h (d) 6 km / h
(e) None of these

Answer Key**1. c****2. d****3. b****4. d****5. a****6. a****7. b****8. a****9. b****10. b**

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