1) The weight of a body as calculated by the average of 7 different experiments is 53.735 gm. The average of the first three experiments is 54.005 gm, of the fourth is 0.004 gm greater than the fifth, while the average of the sixth and seventh experiment was 0.010 gm less than the average of the first three. Find the weight of the body obtained by the fourth experiment.

(a) 49.353 gm
(b) 51.712 gm
(c) 53.072 gm
(d) 54.512 gm

2) Find the average of $f(x) - g(x)$, $g(x) - h(x)$, $h(x) - d(x)$, $d(x) - f(x)$

(a) 0
(b) −2.25
(c) 4.5
(d) 2.25

3) Shyam bought 2 articles for Rs 5.50 each, and 3 articles for Rs 3.50 each, and 3 articles for Rs 5.50 each and 5 articles for Rs 1.50 each. The average price for one article is

(a) Rs 3
(b) Rs 3.10
(c) Rs 3.50
(d) Rs 2

4) The average age of 8 men is increased by 2 years when one of them whose age is 24 years is replaced by a woman. What is the age of the woman?

(a) 35 years
(b) 28 years
(c) 32 years
(d) 40 years

5) Find the average of four numbers
$$2\frac{3}{4}, 5\frac{1}{3}, 4\frac{1}{6}, 8\frac{1}{2}$$

a) $5\frac{3}{16}$
b) $3\frac{3}{16}$
c) $16\frac{5}{3}$

d) $3\frac{16}{5}$

6) A ship sails out to a mark at the rate of 15 km per hour and sails back at the rate of 20 km/h. What is its average rate of sailing?

(a) 16.85 km
(b) 17.14 km
(c) 17.85 km
(d) 18 km

7) Samshu's average daily expenditure is Rs 10 during May, Rs 14 during June and Rs 15 during July. His approximate daily expenditure for the 3 months is

(a) Rs 13 approximately
(b) Rs 12
(c) Rs 12 approximately
(d) Rs 10

8) The average of 5 consecutive numbers is 18. The highest of these numbers will be

(a) 24
(b) 18
(c) 20
(d) 22

9) The average age of Ram and Shyam is 20 years. Their average age 5 years hence will be

(a) 25 years
(b) 22 years
(c) 21 years
(d) 20 years

10) The sum of three numbers is 98. If the ratio between the first and second is 2:3 and that between the second and the third is 5:8, then the second number is

(a) 30
(b) 20
(c) 58
(d) 48

Answers:

1 – C
2 – A
3 – C
4 – D
5 – A
6 – B
7 – A
8 – C
9 – A
10 – A