Word problems on mean

1. Given that the mean for the numbers 3.4, –2.2, 1, x, 5.2, 6.6 is 4.2. Find x

2. Given that the mean for the numbers 3, x, x, 8 and 5 is 10. Find the value of x.

3. When a number x is added to the set of numbers 5, 7, 8, 12, 6, 10 and 11; the new mean is 9. Calculate the value of x.

4. The mean of the set of numbers 6, 3, x, 4, 3, 5, y is given as 5. Find the value of x + y.

5. The mean of a set of 10 numbers is 60. When a number x is added to the set, the mean is changed to 65. Find the value of x.

6. The mean of a set of 12 numbers is 65. When a number y is removed from the set, the mean is changed to 63. Find the value of y.

7. The mean weight of a group of 15 athletes was 60 kg. Two athletes whose weights were 68kg and 65 kg left the group.
What is the new mean weight of the remaining athletes in the group?
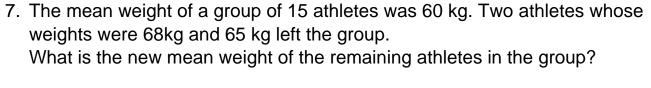
8. There are 20 students in a drama class. The mean age of 12 students is 18 years. The mean age of the remaining 8 students of the drama class is 23 years. What is the mean age of all the students in the drama class?

Answers:

1) 11.2
2) 17
3) 13
4) 14
5) 115
6) Y=87
7) 59
8) 20