

# Calculations with the Mean

## Exercises

1. The mean height of a class of 28 students is 162 cm. A new student of height 149 cm joins the class. What is the mean height of the class now?
2. After 5 matches the mean number of goals scored by a football team per match is 1.8. If they score 3 goals in their 6th match, what is the mean after the 6th match?
3. The mean number of students ill at a school is 3.8 per day, for the first 20 school days of a term. On the 21st day 8 students are ill. What is the mean after 21 days?
4. The mean weight of 25 students in a class is 58 kg. The mean weight of a second class of 29 students is 62 kg. Find the mean weight of all the students.
5. A salesman sells a mean of 4.6 solar power systems per day for 5 days. How many must he sell on the sixth day to increase his mean to 5 sales per day?
6. Adrian's mean score for four test matches is 64. He wants to increase his mean to 68 after the fifth test. What does he need to score in the fifth test match?
7. The mean salary of the 8 people who work for a small company is £15 000. When an extra worker is taken on this mean drops to £14 000. How much does the new worker earn?
8. The mean of 6 numbers is 12.3. When an extra number is added, the mean changes to 11.9. What is the extra number?
9. When 5 is added to a set of 3 numbers the mean increases to 4.6. What was the mean of the original 3 numbers?
10. Three numbers have a mean of 64. When a fourth number is included the mean is doubled. What is the fourth number?