

1. A student receives the following marks in five science tests: 70, 83, 65, 72, and 90.
What is the average mark?
2. The average temperature over 10 days is 18°C . The average temperature over the first 6 days is 16°C .
What is the average temperature over the last 4 days?
3. The average of four numbers is 25. Three of the numbers are 22, 28, and 31.
What is the fourth number?
4. The average speed for a two-part journey is 80 km/h. The first half is travelled at 60 km/h.
What must be the average speed for the second half?
5. A set of six numbers has an average of 15. If one number is removed, the average becomes 13.
What is the value of the number removed?
6. The average of three numbers is 22. If two of the numbers are 19 and 27, what is the third number?
7. In a class, the average score for 8 students is 56. If one student scored 72, what is the average score of the remaining 7 students?
8. The average of five consecutive integers is 28.
What are the five numbers?
9. The average of 9 numbers is 12. If one of the numbers is 24, what is the average of the remaining 8 numbers?
10. A train travels at an average speed of 54 km/h for the first 3 hours and 66 km/h for the next 2 hours.
What is the average speed for the whole journey?
11. The average of seven numbers is 34. If the sum of the first six numbers is 186, what is the seventh number?
12. The mean of five numbers is 19. If one of the numbers is 10, what is the mean of the remaining four numbers?
13. The average of the first four even numbers is ____.
14. A car travels 100 km at 40 km/h and then another 100 km at 60 km/h.
What is the average speed for the whole journey?
15. The mean of three numbers is 45. If two of the numbers are 39 and 51, what is the third number?

1. Average = $(70 + 83 + 65 + 72 + 90) \div 5 = 380 \div 5 = 76$

2. Total for 10 days = $10 \times 18 = 180$

First 6 days = $6 \times 16 = 96$

Last 4 days total = 84

Average = $84 \div 4 = 21^{\circ}\text{C}$

3. Total = $4 \times 25 = 100$

Known total = 81

Fourth number = 19

4. Assume total distance = 160 km

Second half speed = 120 km/h

5. Original total = $6 \times 15 = 90$

New total = $5 \times 13 = 65$

Removed number = 25

6. Total = $3 \times 22 = 66$

Third number = 20

7. Total = $8 \times 56 = 448$

Remaining total = 376

Average = 53.7

8. Numbers: 26, 27, 28, 29, 30

9. Total = $9 \times 12 = 108$

Remaining total = 84

Average = 10.5

10. Total distance = 294 km

Total time = 5 h

Average speed = 58.8 km/h

11. Total = $7 \times 34 = 238$

Seventh number = 52

12. Total = $5 \times 19 = 95$

Remaining mean = 21.25

13. $(2 + 4 + 6 + 8) \div 4 = 5$

14. Average speed = 48 km/h

15. Total = $3 \times 45 = 135$

Third number = 45