



Averages 2



The Range

The range is a measure of how spread out a set of data is.

The range is the biggest number - the smallest number.

E.g. Find the range of this set of data.

19, 23, **12**, 32, 18, 24, 26, 18, 17, **32**.

Range = Biggest number - Smallest number = $32 - 12$ **Range = 20.**

A. Find the range for each set of data.

- 1). 5, 6, 2, 6, 4, 3, 6, 4, 3, 2, 1, 9, 5, 4, 5, 3, 5, 6, 5.
- 2). 72, 76, 81, 75, 73, 76, 71, 80, 71, 71, 76, 75, 74.
- 3). 22, 25, 19, 23, 21, 25, 24, 20, 21, 23, 24, 25, 23, 21, 21.
- 4). 43, 41, 45, 46, 43, 41, 43, 45, 44, 48, 39, 43, 42, 41, 42, 44.
- 5). 126, 110, 113, 108, 102, 121, 118, 112, 114, 106.
- 6). 16, 12, 10, 18, 21, 19, 9, 16, 14, 17, 15, 12, 12, 14, 16, 18, 9.
- 7). 132, 143, 132, 131, 135, 128, 119, 132, 130, 129, 132, 135, 136.
- 8). 89, 78, 80, 87, 92, 88, 72, 85, 86, 79, 74, 80.
- 9). 45, 40, 37, 48, 40, 52, 36, 45, 56, 40, 43, 48, 45.
- 10). 134, 120, 137, 129, 130, 143, 132, 138, 127, 119, 137, 126, 143, 136.
- 11). 17, 24, 32, 28, 21, 27, 16, 19, 20, 32, 34, 24, 25, 21, 28, 23, 21.
- 12). 87, 76, 78, 77, 89, 80, 75, 69, 72, 77, 83, 75, 77, 71, 80, 76, 83, 72.
- 13). 9, 4, 6, 5, 1, 2, 13, 2, 7, 13, 10, 9, 7, 6, 8, 3, 2, 8, 4, 15, 11, 13, 7, 4, 5.
- 14). 12, 9, 7, 8, 14, 15, 11, 10, 9, 7, 8, 6, 14, 14, 12, 11, 8, 7, 13, 10, 10, 9, 8.
- 15). 143, 144, 167, 138, 153, 140, 162, 148, 157, 150, 155, 164, 147, 153, 155, 143, 156.



B. For the following sets of data find the **mode**, **median** and the **range**.

- 1). The number of school dinners eaten each day recently.
256, 397, 248, 307, 259, 277, 294, 263, 294, 263, 294, 310, 284, 273, 285, 293.
- 2). The number of goals the school football team have scored this season.
2, 0, 4, 7, 2, 3, 4, 6, 5, 4, 3, 0, 1, 6, 3, 4, 3, 5, 6, 2.
- 3). A factory checks the number of drawing pins in tubs as they leave the factory.
140, 146, 141, 139, 140, 142, 141, 136, 142, 141, 144, 143, 141, 141, 142.
- 4). Here are the weights of new born babies to the nearest pound.
8, 7, 6, 7, 8, 6, 7, 9, 10, 7, 6, 4, 7, 7, 6, 5, 8, 7, 7, 4, 7, 8, 8, 7, 9.
- 5). The number of passengers in cars passing the school.
0, 0, 1, 0, 0, 2, 3, 0, 1, 1, 0, 1, 2, 0, 2, 2, 1, 1, 2, 0, 0, 0, 0, 2, 2, 0, 0, 1, 1, 1, 0, 1.
- 6). The price of various chocolate bars (in pence) at the newsagents.
26, 24, 28, 34, 24, 27, 30, 24, 25, 30, 32, 28, 27, 25, 29.
- 7). The number of computer games pupils have at home.
0, 5, 7, 4, 0, 2, 6, 15, 7, 9, 6, 4, 4, 0, 8, 0, 6, 0, 8, 14, 7, 6, 3.
- 8). The number of coins in pupils' pockets.
7, 9, 0, 4, 7, 12, 3, 9, 6, 0, 7, 2, 4, 6, 3, 4, 6, 7.
- 9). The heights, in cm, of florists.
167, 142, 154, 131, 147, 156, 172, 154, 140, 132, 144, 127, 132, 127, 132, 144.
- 10). The age of people who read 'The Dandy'.
8, 5, 7, 15, 12, 47, 16, 8, 6, 7, 5, 9, 14, 11, 16, 34, 8, 9, 7.
- 11). The number of pets pupils have at home.
1, 0, 2, 4, 0, 1, 7, 3, 2, 1, 0, 0, 1, 2, 2, 0, 1, 0, 2, 3, 4, 0, 0, 2, 5, 3, 2.
- 12). The length, in mm, of little fingers.
32, 41, 54, 28, 37, 39, 42, 38, 47, 41, 39, 30, 43, 36, 34.

