MATHEMATICS · GRADES 4-6

# Range

### Difficulty level: Intermediate

### Mathematics: Grades 4-6

This document was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

## *Overview of the concept*

This is how you describe how spread out numbers are in one quick look, like whether test scores in a class are bunched together or all over the place. A class where scores run from 60 to 95 is far more spread out than one where they run from 78 to 84, and that tells a teacher something about how the class did. House prices in a neighbourhood and temperatures across a week are spread out the same way. The range is a fast way to see how much variation there is, before you look any closer.



## *Rule*

**Range = largest value - smallest value.**

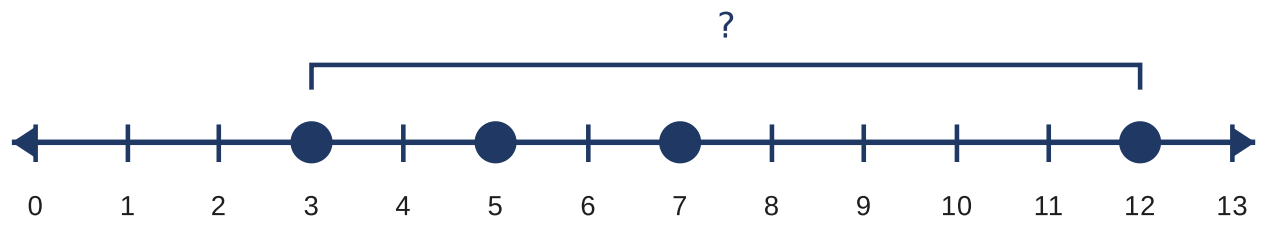
It tells you how spread out the numbers are.

© 2026 Brett Robbins. All Rights Reserved.

## Worked examples

EXAMPLE 1

### Q Find the range of 3, 7, 12, 5




**SOLUTION**

Smallest: 3, Largest: 12

Range = 12 - 3 = 9

Answer: 9

Find the smallest value: 3.

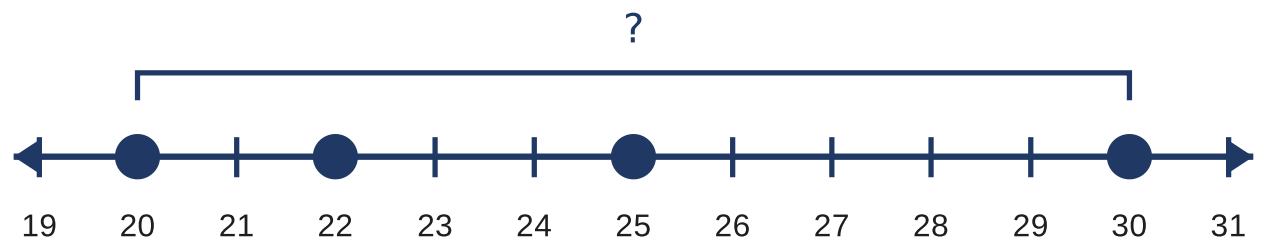
Find the largest value: 12.

Subtract: 12 - 3 = 9

© 2026 Brett Robbins. All Rights Reserved.

EXAMPLE 2

## Q Find the range of 20, 22, 25, 30




### SOLUTION

Smallest: 20, Largest: 30

Range = 30 - 20 = 10

Answer: 10

Find the smallest value: 20.

Find the largest value: 30.

Subtract: 30 - 20 = 10

© 2026 Brett Robbins. All Rights Reserved.

## Practice questions

1

Four jumps measure:
4 m
9 m
15 m
6 m
What is the range?

Understand It with Pulse

Flag a mistake

2

Temperatures are:
-5
-1
3
8 degrees
What is the range?

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

3 Four numbers have a range of 10. Three of the numbers are 5, 9 and 12. The fourth number is the largest. What is it?

Understand It with Pulse | Flag a mistake

4 Class A test scores run from 60 to 95. Class B test scores run from 78 to 84. How much greater is Class A's range than Class B's?

Understand It with Pulse | Flag a mistake

5 Lengths are:
4.5
6.5
9.5
12.5 cm
What is the range?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

6 Prices are:
$5
$8
$12
$20
If the $20 item is removed, what is the range of the rest?

Understand It with Pulse | Flag a mistake

7 Game scores are:
45
52
60
48
A new score of 70 is added. What is the new range?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

8 Four weights are all 8 kg. What is the range?

Understand It with Pulse | Flag a mistake

9 Race times are:
12
18
25
30 seconds
Which time must be removed so the range becomes 13 seconds?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

10

Lengths are:
4
9
14
20 cm
The range is 16 cm. If each length is doubled, what is the new range?

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

## ANSWER KEY

**1.** 11

**2.** 13

**3.** 15

**4.** 29

**5.** 8

**6.** 7

**7.** 25

**8.** 0

**9.** 30

**10.** 32

© 2026 Brett Robbins. All Rights Reserved.