MATHEMATICS · KINDERGARTEN TO GRADE 3

# Addition using number lines

### Difficulty level: Easy

### Mathematics: Kindergarten to Grade 3

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## *Overview of the concept*

This is how you picture adding as moving forward. Count the steps you walk from your front door, or the floors you ride up in an elevator, and you are adding on a number line. Seeing addition as movement makes it clear why adding always takes you further along, and it gives you a picture to fall back on when numbers get bigger.




## *Rule*

**Addition on a number line: start at the first number and jump forward by the second number.**

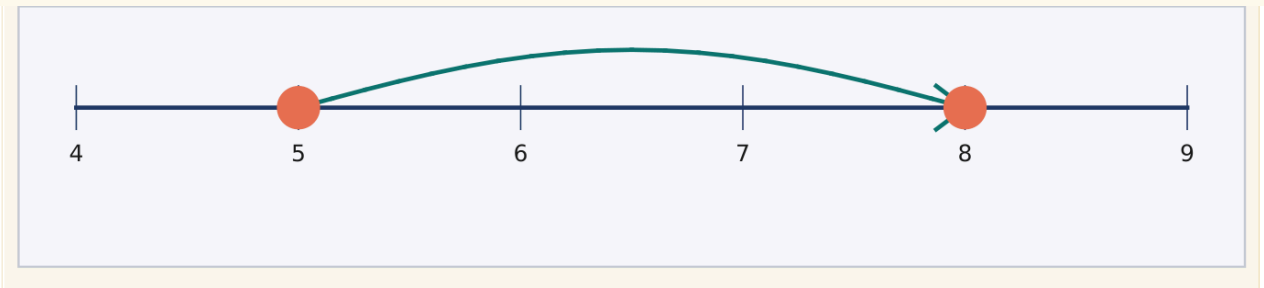
The number you land on is the sum.

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## Worked examples

EXAMPLE 1

### Q What is 5 + 3 on a number line?




**SOLUTION**

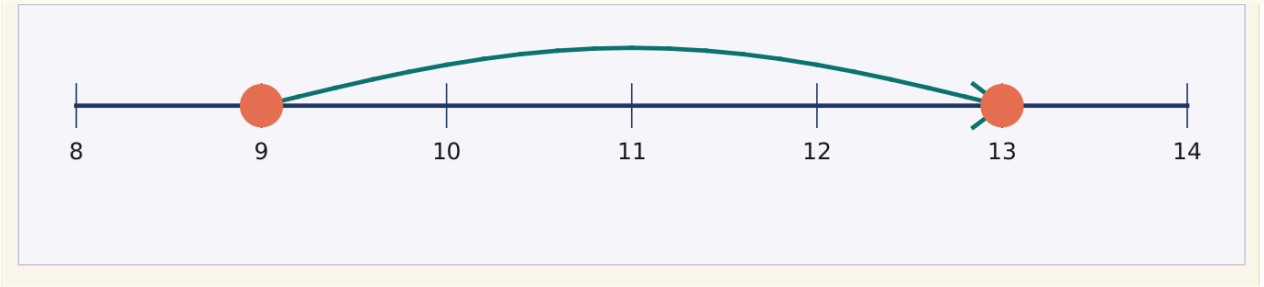
Start at 5 on the line.

Jump forward 3: 6, 7, 8

You land on 8, so 5 + 3 = 8

EXAMPLE 2

### Q What is 9 + 4 on a number line?




**SOLUTION**

Start at 9 on the line.

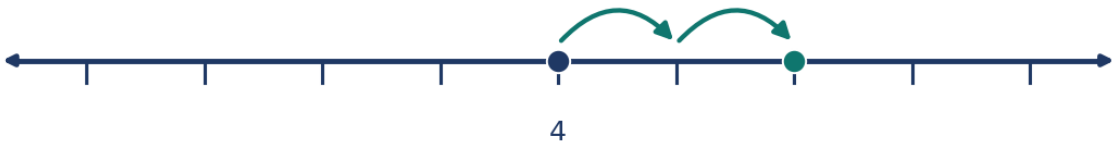
Jump forward 4: 10, 11, 12, 13

You land on 13, so 9 + 4 = 13

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## Practice questions

**1** A frog sits on 4. It makes 2 jumps forward. The jumps are drawn. The number it lands on has no label. What number does it land on?




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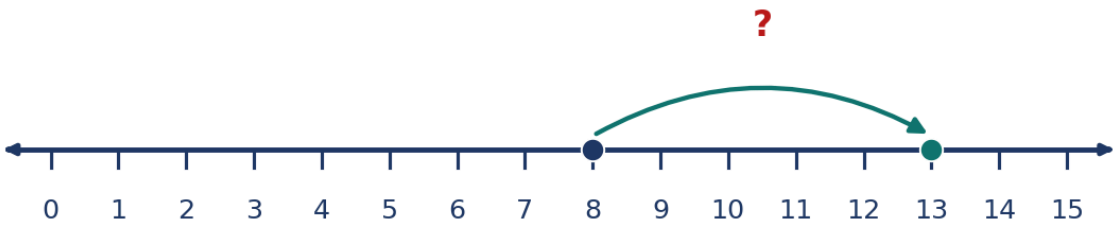
**2** The jumps start at 7 and end on 10. How many jumps are there?




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**3** One big jump goes from 8 to 13. How many spaces does the jump cover?




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**4** The jumps end on 12. Count back along the jumps. What number did they start from?




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5 How many jumps of 1 does it take to get from 3 to 9?

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6 A frog starts on 5 and makes 3 jumps of 2 forward. Where does it land?

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7 A rabbit hops from 3 to 12 in 3 equal jumps. How big is each jump?

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8 **Start at 0 and jump forward 5, then forward 3 more. Where do you land?**

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9 **What number is 3 jumps forward from 7 if each jump is 2?**

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10 **How many jumps of 3 does it take to go from 0 to 12?**

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## ANSWER KEY

**1.** 6

**2.** 3

**3.** 5

**4.** 6

**5.** 6

**6.** 11

**7.** 3

**8.** 8

**9.** 13

**10.** 4

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