



GRADE 2 / WATCH MR DJ SOLVE

NUMBER-LINE ADDITION AND SUBTRACTION

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Show $7+5$ on a number line that includes 0. Label the start and end.**

- 1** Start at 7.
- 2** Jump 5 units right.
- 3** Land at 12.

Answer: 12**REMEMBER** show whole numbers, sums and differences as equal-unit distances on number lines.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.

**GRADE 2 / WORKED METHODS****NUMBER-LINE ADDITION AND SUBTRACTION**

Read a complete example before trying the matching method.

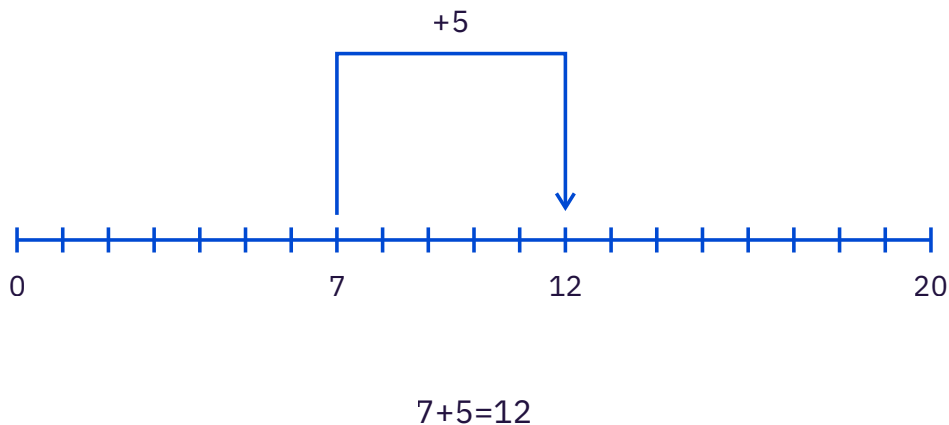


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Addition moves right

$7+5=12$

1. Start at 7.
2. Move five unit gaps right.
3. The endpoint is 12.





GRADE 2 / WORKED METHODS

NUMBER-LINE ADDITION AND SUBTRACTION

Read a complete example before trying the matching method.

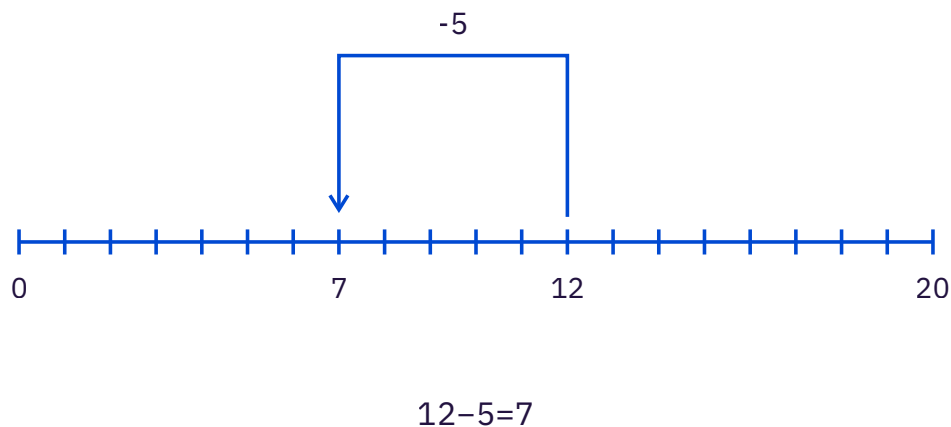


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Subtraction moves left

$12-5=7$

1. Start at 12.
2. Move five unit gaps left.
3. The endpoint is 7.





GRADE 2 / MATHEMATICAL WORK TOOL

NUMBER-LINE ADDITION AND SUBTRACTION

Draw, label and explain.



Make equal intervals and label zero and the unit. For number lines, keep one scale. This page is not a calibrated ruler: use a real ruler for measuring objects.





GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild

1. Show $12-5$ on a number line that includes 0.

My answer / conclusion: _____



GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild

2. How far is 7 from 0 on a whole-number line?

My answer / conclusion: _____



GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Medium

3. Start at 7. Jump 3, then 2, to the right. Where do you land?

My answer / conclusion: _____



GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Medium

4. Start at 12. Make two left jumps totaling 5. Label a possible pair.

My answer / conclusion: _____



Date _____

NUMBER-LINE ADDITION AND SUBTRACTION

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Medium 5. Fill $\square$: $7 + \square = 12$. Use a number-line gap.

My answer / conclusion: _____



GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

6. Digit counts the starting mark as the first jump for $7+5$. Why is that wrong?

My answer / conclusion: _____



GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

7. Can one jump of 5 and 5 one-unit jumps end together? Explain.

Grid area for working out the problem.

My answer / conclusion: _____

GRADE 2 / PRACTICE

NUMBER-LINE ADDITION AND SUBTRACTION

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Make an adding equation and a subtracting equation with endpoints 7 and 12. Explain the arrows.

My answer / conclusion: _____