LESSON MAKER PRO

Number Line Hops

Use hops to add and subtract.

GRADE 2 · NY-2.MD.6

NY-2.MD.6 "Represent whole numbers as lengths from 0 on a number line with equally spaced points corresponding to the numbers 0, 1, 2, …, and represent whole-number sums and differences within 100 on a number line."

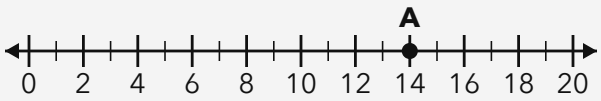
NAME _____ DATE _____

HOPS ON A NUMBER LINE

Start at a number. Move right to add. Move left to subtract.

WORKED EXAMPLE

A toy train is at point A. It moves 5 spaces right. What number does it reach?



1. Point A is at 14.
2. Move 5 spaces right.
3. 14 + 5 = 19.

Answer: 19

PRACTICE 4 problems

1 A rabbit is on 6. It hops 4 spaces right. What number does it reach?

ANSWER _____

2 A game piece is on 17. It moves 6 spaces left. What number does it reach?

ANSWER _____

3 A puppy is on 12. It walks 6 spaces right. What number does it reach?

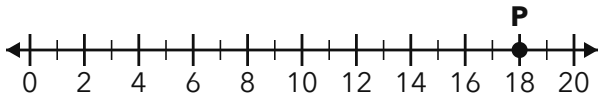
ANSWER _____

4 A robot is on 22. It moves 9 spaces left. What number does it reach?

ANSWER _____

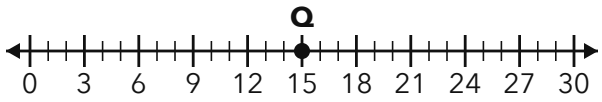
APPLY IT Show your work

1 In a video game, Kai is on level 11. He moves to point P. How many levels does he move?



ANSWER _____

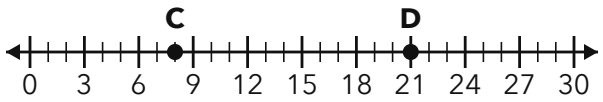
2 At a skate park, Ava starts at 24 on a score track. She moves back to point Q. How many spaces does she move?



ANSWER _____

CHALLENGE One step up

On the supplied number line, darken the length from 0 to C=8 and label it 8 units. Above the line, draw a right-pointing hop from 8 to D=21 and label it +13. Below it, draw a left-pointing hop from 21 back to 8 and label it -13. Count the equal unit spaces to check your hops. Then fill both blanks: 8 + ___ = 21 and 21 - ___ = 8.



WORK SPACE AND ANSWER

ANSWER KEY

Number Line Hops

GRADE 2 · NY-2.MD.6

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A rabbit is on 6. It hops 4 spaces right. What number does it reach?	**10**
2	A game piece is on 17. It moves 6 spaces left. What number does it reach?	**11**
3	A puppy is on 12. It walks 6 spaces right. What number does it reach?	**18**
4	A robot is on 22. It moves 9 spaces left. What number does it reach?	**13**

PART 2 · APPLY IT

1. **7 levels** Point P is at 18. Find 18 - 11 = 7.
2. **9 spaces** Point Q is at 15. Find 24 - 15 = 9.

CHALLENGE

8 + 13 = 21; 21 - 13 = 8. Check an actual darkened 0-to-8 segment (8 equal units), a labeled rightward 8-to-21 hop (+13 units), and a labeled leftward 21-to-8 hop (-13 units). The endpoints, directions and labels must agree with the equations.

Accept number answers with or without the unit when the question names levels or spaces. For the challenge, both blanks must be 13. For the challenge, require the actual drawn length and both directed hops as well as the numeric answers; allow a teacher to read the directions aloud and children to use separate paper if needed.