LESSON MAKER PRO

# Where Did You Land?

*Track signed sums on a number line and in everyday situations.*

**GRADE 7 · 7.NS.A.4.b**

**7.NS.A.4.b** "Interpret the sum of two or more rational numbers, by using a number line and in real-world contexts."

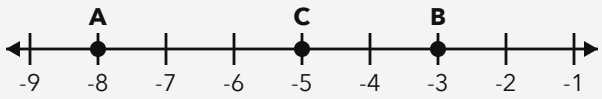
NAME _____ DATE _____

## FOLLOW THE MOVES

On a number line, adding a positive number moves you right, and adding a negative number moves you left. Start at the first number and follow each move in order. Your final position is the sum.

### WORKED EXAMPLE

Start at A, move to B, then move to C. Write the signed addition sentence and name the final position.




1. Start at A, which is -8.
2. A to B is 5 units right, so add 5.
3. B to C is 2 units left, so add -2.

**Answer: -8 + 5 + (-2) = -5. The final position is -5.**

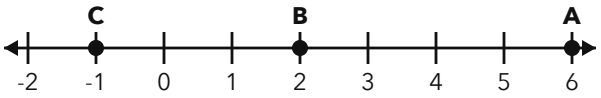
## PRACTICE 6 problems

**1** Follow the path from A to B to C. Write an addition sentence that starts at A and ends at C.




ANSWER _____

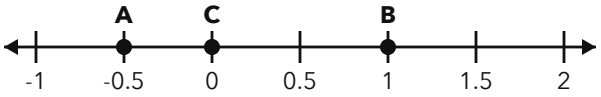
**2** Follow the path from A to B to C. Write an addition sentence for the two moves, then find the total change.




**ANSWER** _____

_____

**3** Mia says the moves from A to B to C cancel. Is she correct? Find the total change.




**ANSWER** _____

_____

**4** Find the sum: -3/4 + 1/2 + (-1/4).

**ANSWER** _____

**5** Find the sum: 2.25 + (-3.5) + 0.75.

**ANSWER** _____

**6** Which sum is farther from 0: -1/3 + (-1/6) or 1/4 + 1/2? Find both sums.

**ANSWER** _____

_____

## APPLY IT Show your work

**1** You have $12.50 in a game account. You spend $4.75 on an item, get a $3.25 refund, and spend $2.00 on an add-on. What is your balance?

WORK SPACE

**ANSWER** _____

**2** At a skate park, a rider begins 1 1/4 meters above ground level. The rider rolls down 2 1/2 meters into a bowl, then rides up 3/4 meter. Where is the rider compared with ground level?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Two players start at 0 points. Player A's score changes by -1/2, +1 1/4, and -3/4 points. Player B's score changes by +3/4, -1 1/2, and +1/4 points. Who finishes with the higher score, and by how much? Explain using both sums.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Where Did You Land?

**GRADE 7 · 7.NS.A.4.b**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Follow the path from A to B to C. Write an addition sentence that starts at A and ends at C. | **-4 + 3 + 3 = 2** |
| 2 | Follow the path from A to B to C. Write an addition sentence for the two moves, then find the total change. | **-4 + (-3) = -7. The total change is -7.** |
| 3 | Mia says the moves from A to B to C cancel. Is she correct? Find the total change. | **No. The total change is +0.5 because 1.5 + (-1) = 0.5.** |
| 4 | Find the sum: -3/4 + 1/2 + (-1/4). | **-1/2** |
| 5 | Find the sum: 2.25 + (-3.5) + 0.75. | **-0.5** |
| 6 | Which sum is farther from 0: -1/3 + (-1/6) or 1/4 + 1/2? Find both sums. | **-1/3 + (-1/6) = -1/2; 1/4 + 1/2 = 3/4. The sum 3/4 is farther from 0.** |

## PART 2 · APPLY IT

1. **$9.00** Add the signed changes to the starting balance: 12.50 + (-4.75) + 3.25 + (-2.00) = 9.00.
2. **1/2 meter below ground level** The final height is 1 1/4 + (-2 1/2) + 3/4 = -1/2 meter. The negative sign means the rider is below ground level.

## CHALLENGE

**Player A finishes 1/2 point higher. A: -1/2 + 1 1/4 + (-3/4) = 0. B: 3/4 + (-1 1/2) + 1/4 = -1/2. Zero is 1/2 greater than -1/2.**

Accept equivalent fractions or decimals and addition sentences with equivalent grouping. For number-line items, check that each signed move matches the direction and distance between the labeled points.