LESSON MAKER PRO

Integer Point Patrol

Read, model, and explain integers on number lines.

GRADE 6 · 6.NS.2.a

6.NS.2.a "Represent integers (e.g., number lines, concrete materials, pictorial models), including models derived from contextual situations, and identify an integer represented by a point on a number line."

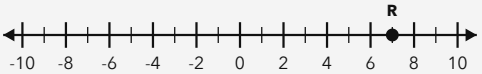
NAME _____ DATE _____

READ INTEGER POSITIONS

On a number line, numbers to the right of 0 are positive, and numbers to the left of 0 are negative. Read the value at the tick where a point is placed.

WORKED EXAMPLE

What integer does point R represent?

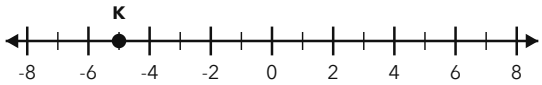


1. Find 0 on the number line.
2. Move right from 0 to point R.
3. Point R is 7 units to the right of 0.

Answer: 7

PRACTICE 6 problems

1 What integer does point K represent?



ANSWER _____

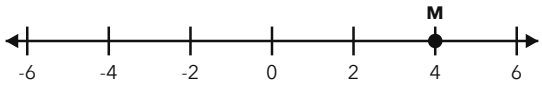
2 The temperature is 3 degrees below 0 degrees. Write the integer that represents the temperature.

ANSWER _____

3 Five red integer chips each represent -1. What integer do the chips represent altogether?

ANSWER _____

4 What integer does point M represent?



ANSWER _____

5 Write the integer opposite 8 on a number line.

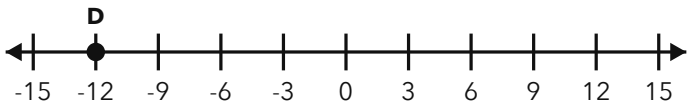
ANSWER _____

6 A bank account balance is 6 dollars below 0 dollars. Write the integer that represents the balance.

ANSWER _____

APPLY IT Show your work

1 In a skateboarding video game, 0 means street level. Point D shows the rider's location. What integer represents the rider's location?



ANSWER _____

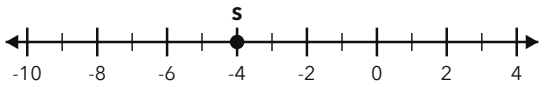
2 During a robotics competition, a team begins a round with 0 points. A penalty puts the team's score 16 points below 0. What integer represents the score?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Point S marks -4 on the number line. Point T is 5 units to the right of S. What integer does T represent? Explain how you know.



WORK SPACE AND ANSWER

ANSWER KEY

Integer Point Patrol

GRADE 6 · 6.NS.2.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What integer does point K represent?	**-5**
2	The temperature is 3 degrees below 0 degrees. Write the integer that represents the temperature.	**-3**
3	Five red integer chips each represent -1. What integer do the chips represent altogether?	**-5**
4	What integer does point M represent?	**4**
5	Write the integer opposite 8 on a number line.	**-8**
6	A bank account balance is 6 dollars below 0 dollars. Write the integer that represents the balance.	**-6**

PART 2 · APPLY IT

1. **-12** Point D is 12 units to the left of 0 on the number line. A location below street level is represented by a negative integer.
2. **-16** A score below 0 is negative. Sixteen points below 0 is -16.

CHALLENGE

1; moving 5 units right from -4 gives -4 + 5 = 1.

Accept 4 or +4 for positive values. For the challenge, accept any clear explanation that shows moving right 5 units from -4 reaches 1.