DO NOW

GRADE 7 · 5 MINUTES · START RIGHT AWAY

Lesson 5-5c **Solve Inequalities Using Multiplication by a Negative Value**

Name _____ Date _____ Per _____

1 FLUENCY

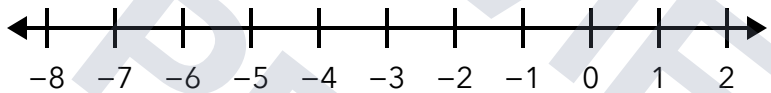
Solve the inequality.

$\frac{x}{-3} \geq 4$ ☐

2 VISUAL MODEL

Solve $-\frac{1}{2}x < 2$. Then graph the solution.

Solution: ☐



3 APPLICATION

On a hike the temperature changes by $-\frac{1}{3}$ °F for every 100 ft climbed. The hikers want the change to be no less than −6°F. How many hundred feet f can they climb?

_____ _____

WORK

4 REASONING

Test $x = -15$ and $x = 0$ in $\frac{-x}{5} > 2$. Which one is a solution? What does this show about the sign?

Solution: **−15** or **0** So x ☐ −10

_____

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

Preview - the full worksheet and its answer key are at primeworksheet.com