DO NOW

ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 1-5b **Solve a One-Variable Inequality by Graphing**

Name _____ Date _____ Per _____

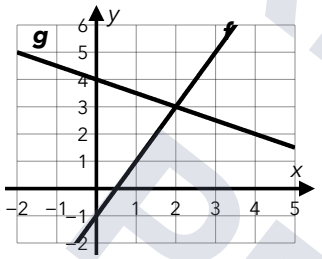
1 FLUENCY

The graphs of $y = x + 2$ and $y = -x + 4$ intersect at (1, 3). Solve $x + 2 > -x + 4$.

x ☐

2 VISUAL MODEL

Use the graph to solve $2x - 1 \leq -0.5x + 4$.



$f(x) = 2x - 1$

$g(x) = -0.5x + 4$

Intersection: ☐

Solution: ☐

3 APPLICATION

Phone plan A costs \$40 plus \$5 per GB of data. Plan B costs \$60 plus \$3 per GB. Graph both costs. For how many GB is plan A cheaper?

_____

WORK

4 REASONING

The graphs of $f(x) = -x + 3$ and $g(x) = x + 5$ meet at $(-1, 4)$.
Select TWO values of x for which $f(x) > g(x)$.

Ⓐ -3 Ⓑ -1 Ⓒ 0 Ⓓ -1.5 Ⓔ 2

_____

*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