SSR

Read silently until 9:15

Opener

1. Suppose a square plot of land is being divided into four lots for a housing development. How many lots will there be in the development?

\[
\frac{241}{3} = \frac{721}{3}
\]

2. Simplify: \(2x - 9x + 8x - 12\)

\[
2x - 9x + 8x = \frac{1}{4} \cdot \frac{3}{4} = \frac{3}{16}
\]

3. Todd can run a mile in 4 minutes. What is his speed in miles per minute?

\[
\frac{\frac{1}{4} \text{ mi}}{4 \text{ min}} = \frac{1}{4} \cdot \frac{3}{4} = \frac{3}{16} \text{ miles per min.}
\]

\[
x + 12 = 12
\]

\[
x = 12
\]
Learning Target
I can solve and graph an inequality on a number line.

Inequalities
What does each of the symbols mean?

When we work with inequalities, we use a to show our solution. Why do you think that is?

$x < 2$

0 2
Graph each inequality below.

1. \( x \leq 2 \)

2. \( x < -4 \)

3. \( x \geq 3 \)

4. \( x > 0 \)
Rewrite homework problems to complete TONIGHT

Expectations

Solve and graph the inequality on page 122 on your notes page you will make the x or o

Hollywood playing RULES

Level 0: First Minute
Level 1: 2 minutes to collaborate
Level 0: Team member solving

HOLLYWOOD SQUARES IS LIKE TIC-TAC-TOE
The Hollywood Squares

2x + 8 ≤ 16
\[-5 + 3x < 22\]

\[\frac{4}{3}x - 2 > -6\]
\[ \frac{3}{5}x - 4 \geq -1 \]

\[ 2x + 6 > 0 \]

\[ x > 3 \]
\[
\frac{1}{3}x - 12 \leq -14
\]

\[
5x - 6 > -6
\]
\[4x - 2 > -18\]
\[4x > -16\]
\[x > -4\]

\[4x - 6 \leq 30\]
Summary

Table Discussion: What does the graph of an inequality represent?