Created by Mr. Lischwe
Warmup 10/(-8 - (-28))


Solve the inequality. Then graph the solution.

$$
-5(x-6) \leq 3 x+9-x
$$

$\square$

## Tips

- $\leq$ or $\geq$ : Solid line
o < or >: Dotted line
- $y<$ or $y \leq$ : Shade below
- $y>$ or $y \geq$ : Shade above
- YOU MUST SOLVE FOR Y BEFORE SHADING!!!!!!
- HELPFUL HINT:
- Check your answer by substituting an easy point



Ada has at most 120 beads to make jewelry. A

## Graph the solutions.

Shade below the line. Ada can only make whole numbers of jewelry. All points on or below the line with whole number coordinates are the different combinations of bracelets and necklaces that Ada can make.


$\square$


Write an inequality to represent the graph.
$y$-intercept: 1 ; slope: $\frac{3}{4}$
Write an equation in slopeintercept form.
$y=m x+b \rightarrow y=\frac{3}{4} x+1$
The graph is shaded above a dashed boundary line.

Replace $=$ with $>$ to write the inequality $y>\frac{3}{4} x+1$.


