Solving Inequalities
7.7 Using multiplication & division

EQ: How can you use multiplication and division to solve an inequality?

★ The goal is still to <u>isolate the variable</u>

★ If you do something to one side of the equal sign, you must do it to the other.
↳ <u>balanced</u>

Ask the 3 questions.

Example 1: $\frac{x}{5} \leq 2$

① x
② ÷5
③ ×5

do this to both sides

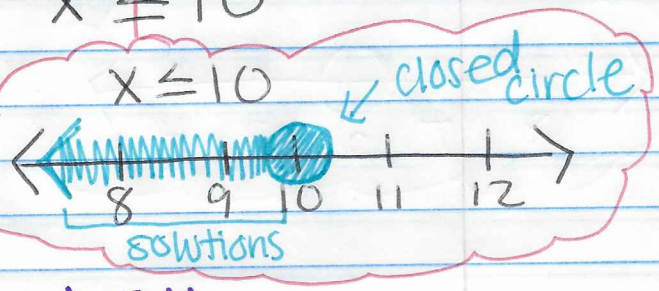
$\times 5 \quad | \quad \times 5$

$x \leq 10$

Side Work

$\frac{5}{1} \times \frac{x}{5} = x$

$x \leq 10$



Example 2: $8x > 24$

① x
② ×8
③ ÷8

$\div 8 \quad | \quad \div 8$

$x > 3$

$x > 3$