Your Name

Mrs. T

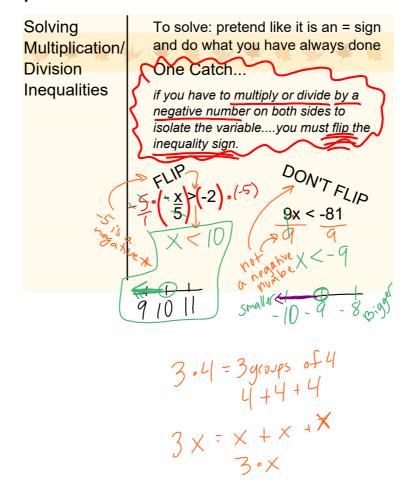
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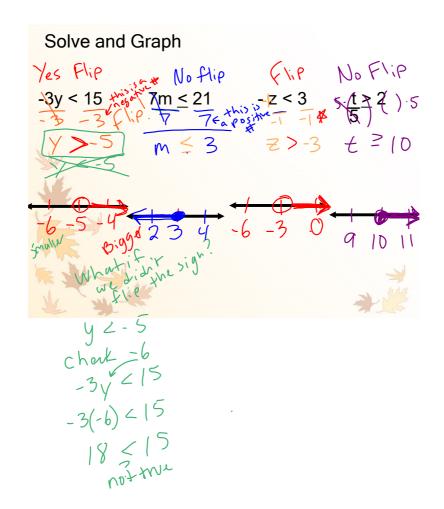
2.3

Solving Inequalities by Multiplication and Division

Objective: To be able to solve inequalities using multiplying and dividing. To be able to graph inequality solutions found. To understand what the solutions are.

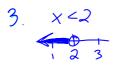
Virtue/Skill: When we graph inequalities we might need to solve for a variable in order to graph it. With two variables on a coordinate plane, we need to be able to check our solutions to understand how to shade. Graphing on a number line is similar to graphing on a coordinate plane.



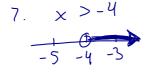


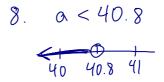
Homework Key: Textbook pg. 71

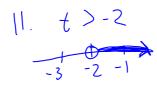
3,4,7,8,11,12,15,16



$$4. y \le -3$$





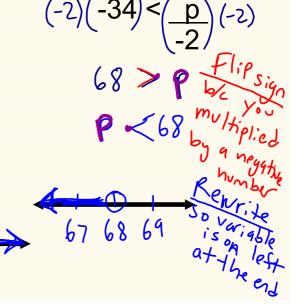


15.
$$n \leq -3$$

If the variable is on the right

Rewrite it (before you start or at the end) keeping the expression on the bigger end still on the bigger end.

Revoce 40 ≥-4x ve vegin = 4x ≤ 40 100 vegin = 4x ≤ 40 -4 = -40 significant x ≥ -10



How do we divide fractions?

$$\frac{5}{6} \div \frac{2}{3}$$
skie Flie
$$\frac{5}{6}$$

$$\frac{3}{2}$$

$$\frac{3}{2}$$

$$\frac{3}{2}$$

$$\frac{3}{2}$$

$$\frac{3}{2}$$

Solving
Inequalities
with
Fractions

To "divide" by the fraction, multiply by the reciprocal (multiply by the flipped fraction)

$$\frac{(+3)(+2x)>(9)(-3)(2)}{(2)(-3)(2)}-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{1}{2}(-36)<\frac{$$

