7.7

Solving Inequalities Using Multiplication and Division

Review

Solve the following:

a) $12m = 84$

b) $\frac{y}{9} = 18$

Review

Solve the following:

c) $32 = \frac{g}{8}$

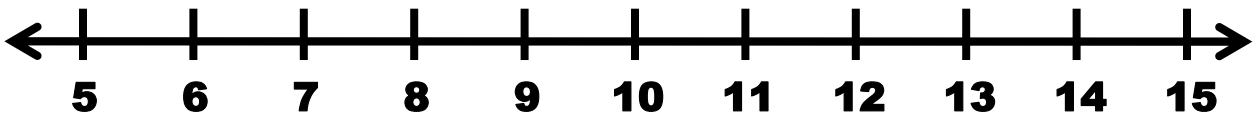
d) $\frac{1}{4}x = 20$

Solving Inequalities

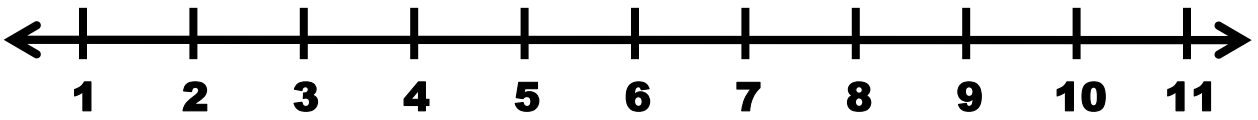
Solving inequalities is just like solving regular equations…

Solve and graph the following:

1) $\frac{x}{5} \leq 2$



2) $1 < \frac{j}{7}$

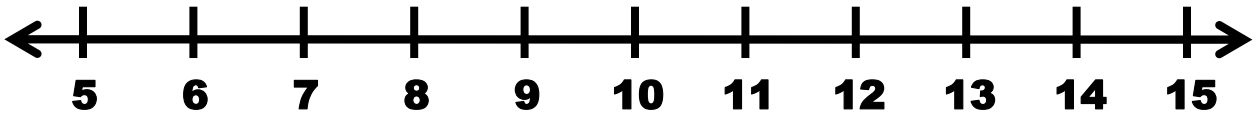


Solving Inequalities

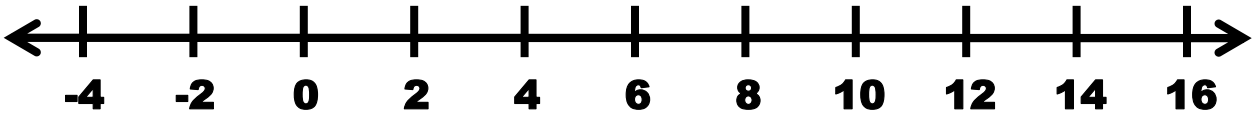
Solving inequalities is just like solving regular equations…

Solve and graph the following:

3) $\frac{3}{5}x \geq 6$



4) $4n > 65$

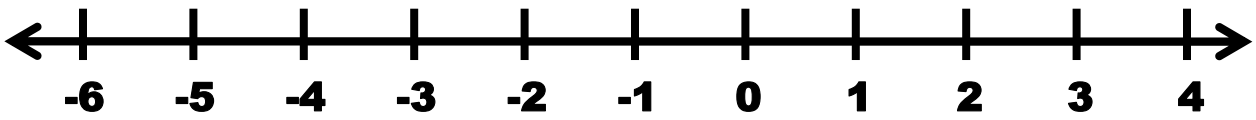


Solving Inequalities

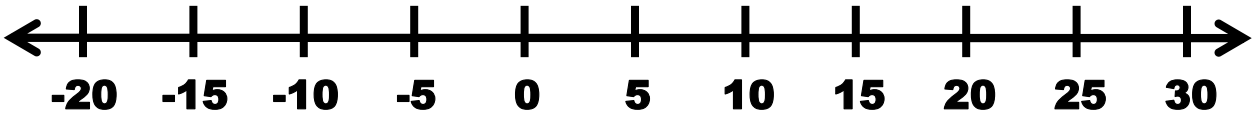
Solving inequalities is just like solving regular equations…

Solve and graph the following:

5) $11k \leq 33$



6) $50 \leq 2m$



Application

A one-way bus ride costs $1.50. A 30-day bus pass costs $37.50.

a. Write and solve an inequality to find the least number of one-way rides you must take for the 30-day pass to be a better deal.

b. You ride the bus an average of 20 times each month. Is the pass a better deal? Explain.