

Warm-up

Solve:

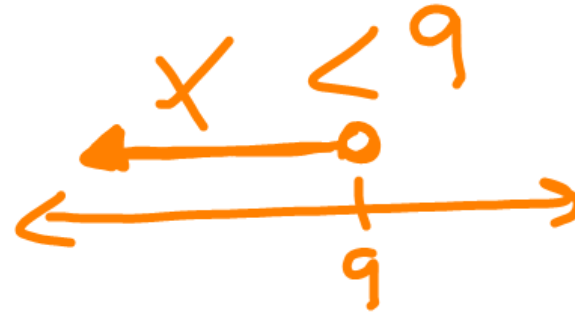
① $3x - 5 = 10$

$$3x = 15$$

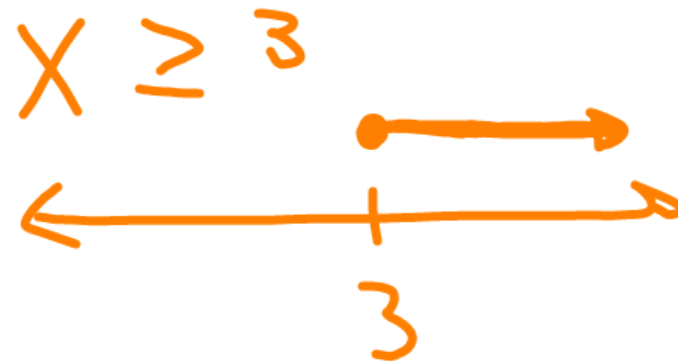
$$x = 5$$

Translate \ni graph

② Have less than \$9



③ Worked at least 3 hrs
more than



1.6 Solving Linear Inequalities

$>$ or $<$ means open circle \circ

\geq or \leq means closed circle \bullet

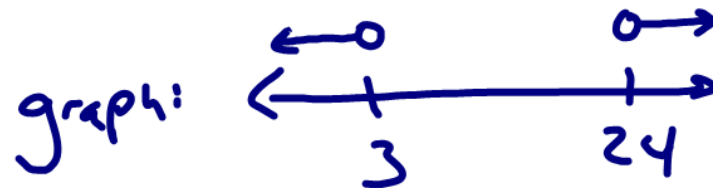
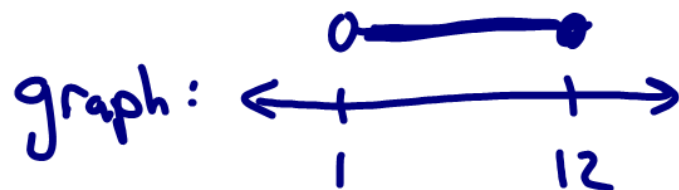
Compound Inequalities

AND Inbetween

OR outside

$$1 < x \leq 12$$

$$x < 3 \text{ or } x > 24$$



Solve & graph

$$\textcircled{1} \quad \cancel{5x} + 2 > \cancel{7x} - 4$$

$$2 > \cancel{2x} - 4$$

$$\frac{6}{2} > \frac{2x}{2}$$

$$3 > x$$

* 3 is bigger than x

$$x < 3$$

$$5x + 2 > 7x - 4$$

$$-2x + 2 > -4$$

$$\frac{-2x}{-2} > \frac{-6}{-2}$$

$$x < 3$$

* Inequality switches
when * or ÷ by -