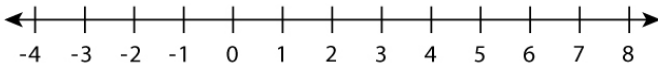


Name : _____

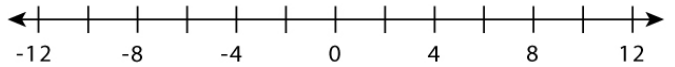
Absolute Value Inequalities

Solve the inequality and graph the solution.

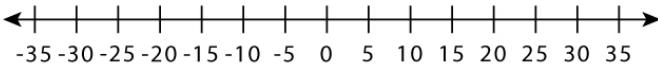
1 $|y - 2| - 5 < -2$



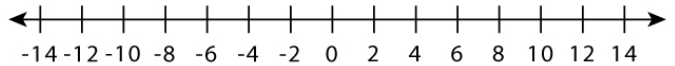
2 $|-6b| \leq 60$



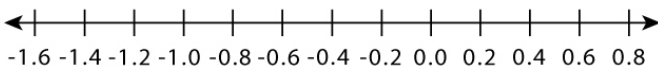
3 $|7x + 4| \geq 74$



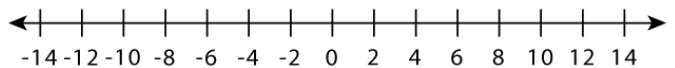
4 $-4 - 3|x| \leq -16$



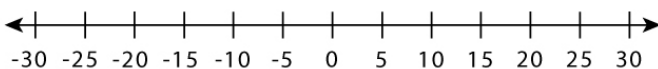
5 $9 - 2|4x + 1| > 3$



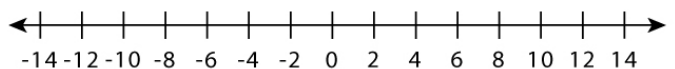
6 $|x| + 7 > 16$



7 $\frac{|y - 4|}{5} \leq 2$



8 $\frac{|2 + 3x|}{2} \geq 5$



Absolute Value Inequalities

Answers

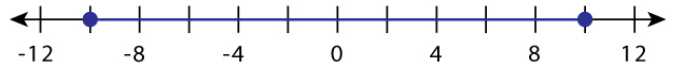
$$1 \quad |y - 2| - 5 < -2$$

$$-1 < y < 5$$



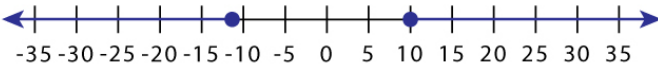
$$2 \quad |-6b| \leq 60$$

$$-10 \leq b \leq 10$$



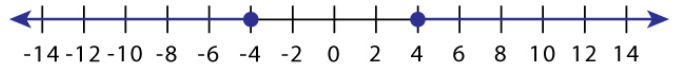
$$3 \quad |7x + 4| \geq 74$$

$$x \leq -\frac{78}{7} \text{ or } x \geq 10$$



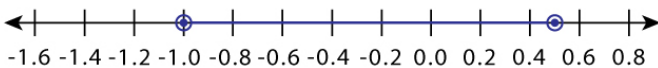
$$4 \quad -4 - 3|x| \leq -16$$

$$x \geq 4 \text{ or } x \leq -4$$



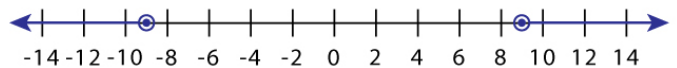
$$5 \quad 9 - 2|4x + 1| > 3$$

$$-1 < x < \frac{1}{2}$$



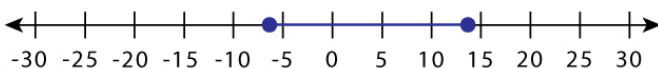
$$6 \quad |x| + 7 > 16$$

$$x > 9 \text{ or } x < -9$$



$$7 \quad \frac{|y - 4|}{5} \leq 2$$

$$-6 \leq y \leq 14$$



$$8 \quad \frac{|2 + 3x|}{2} \geq 5$$

$$x \geq \frac{8}{3} \text{ or } x \leq -4$$

