

$x = -2$ is a solution.
 $x = 0$ is not a solution.
 $x = 3$ is a solution.

$x = -2$ is not a solution.
 $x = 0$ is a solution.
 $x = 3$ is a solution.

$$|x+2| \geq 1$$

$$|x+1| \leq 2$$

$x = -2$ is a solution.
 $x = 0$ is a solution.
 $x = 3$ is not a solution.

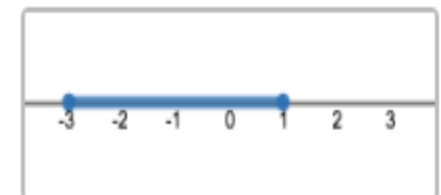
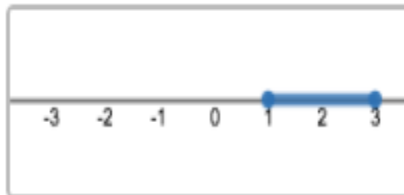
$x = -2$ is not a solution.
 $x = 0$ is not a solution.
 $x = 3$ is a solution.

$$|x-1| \geq 2$$

$$|x-2| \leq 1$$

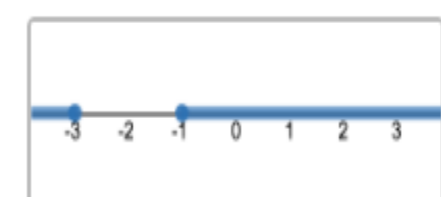
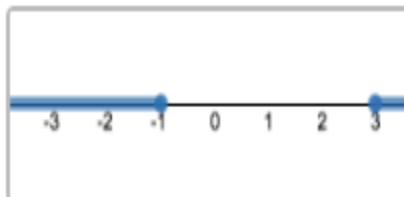
The set of all numbers
at least 2 units away
from 1.

The set of all numbers
at most 2 units away
from -1.



The set of all numbers
at least 1 unit away
from -2.

The set of all numbers
at most 1 unit away
from 2.



Absolute Value Inequality Card Sort Activity 1: This is a paper-based extension/adaptation of a part of a Desmos Class Activity

Source: <https://teacher.desmos.com/dashboard/5ce95b36ede3ee69f744c68d>

$x = -2$ is a solution.
 $x = 0$ is not a solution.
 $x = 3$ is a solution.
 big wheel

$x = -2$ is not a solution.
 $x = 0$ is a solution.
 $x = 3$ is a solution.
 motorcycle

red $|x + 2| \geq 1$

yellow $|x + 1| \leq 2$

$x = -2$ is a solution.
 $x = 0$ is a solution.
 $x = 3$ is not a solution.
 unicycle

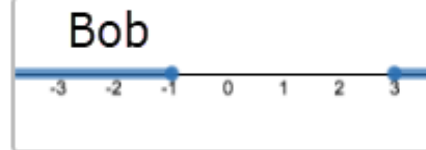
$x = -2$ is not a solution.
 $x = 0$ is not a solution.
 $x = 3$ is a solution.
 go kart

blue $|x - 1| \geq 2$

green $|x - 2| \leq 1$

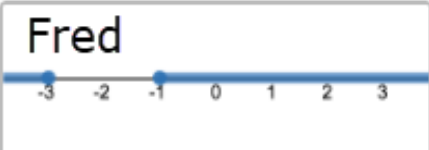
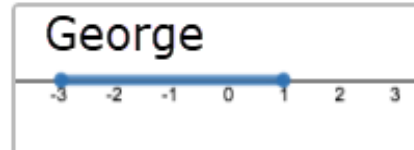
The set of all numbers at least 2 units away from 1. Sally

The set of all numbers at most 2 units away from -1. Doris



The set of all numbers at least 1 unit away from -2. Gertrude

The set of all numbers at most 1 unit away from 2. Trish



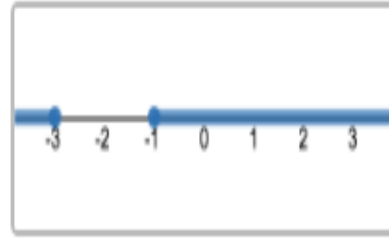
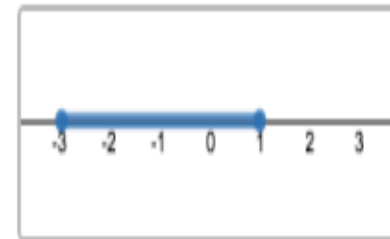
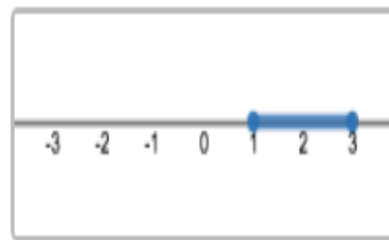
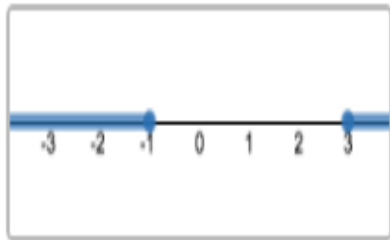
Directions: Determine which woman and what colored vehicle is associated with each man below

Man	Woman	Man	Woman	Man	Woman	Man	Woman
Bob		Fred		George		Mongo	
Color	Vehicle	Color	Vehicle	Color	Vehicle	Color	Vehicle

<p>all-star</p>	<p>MVP</p>	<p>$x \geq 1$ and $x \leq 3$ basketball</p>	<p>$x \leq -1$ or $x \geq 3$ tennis</p>
<p>champion</p>	<p>record holder</p>	<p>$x \leq -3$ or $x \geq -1$ ping pong</p>	<p>$x \geq -3$ and $x \leq 1$ swimming</p>
<p>Paul $x + 1 \leq 2$</p>	<p>John $x - 1 \geq 2$</p>	<p>$1 \leq x \leq 3$ snake</p>	
<p>Harrison $x - 2 \leq 1$</p>	<p>Ringo $x + 2 \geq 1$</p>	<p>$-3 \leq x \leq 1$ monkey</p>	

Directions: Determine which person, sport, and animal associated with each title below

<p>Title</p> <p>All-star</p> <p>Name</p>	<p>Sport</p> <p>Animal (if possible)</p>	<p>Title</p> <p>Champion</p> <p>Name</p>	<p>Sport</p> <p>Animal (if possible)</p>	<p>Title</p> <p>MVP</p> <p>Name</p>	<p>Sport</p> <p>Animal (if possible)</p>	<p>Title</p> <p>Record holder</p> <p>Name</p>	<p>Sport</p> <p>Animal (if possible)</p>
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$$x \geq 1 \text{ and } x \leq 3$$

$$x \leq -1 \text{ or } x \geq 3$$

$$x \leq -3 \text{ or } x \geq -1$$

$$x \geq -3 \text{ and } x \leq 1$$

$$|x+1| \leq 2$$

$$|x-1| \geq 2$$

$$|x-2| \leq 1$$

$$|x+2| \geq 1$$

$$1 \leq x \leq 3$$

$$-3 \leq x \leq 1$$

Absolute Value Inequality Card Sort Activity 2 This is a paper-based extension/adaptation of a part of a Desmos Class Activity

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