The graph of an inequality is an _____ number of points which make the inequality _____.

Steps to graph:

1. Simplify the inequality.

$$x + 5 < 7$$
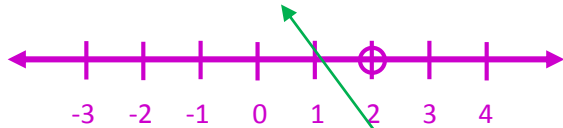$$\underline{\ -5\ \ -5}$$
$$x \qquad < 2$$

2. Graph a circle at the number.

$$x < 2$$

3. Fill in the circle?

$< \text{ or } >$ no   no

$\leq \text{ or } \geq$ yes

4. Test numbers on each side of the circle to determine the arrow's direction.

$$0 < 2 \qquad \text{true}$$
$$4 < 2 \qquad \text{false}$$

Draw arrow toward the 0.