Name:

Solving one-step inequalities

Solve, graph and check.

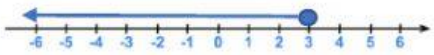
Example: $3 + p \leq 6$

To solve this inequality, I need to subtract 3 from both sides.

$$3 + p \leq 6$$
$$-3 \quad -3$$
$$p \leq 3$$

We need to graph the solution on the number line.

Locate the number 3 on the number line. Draw a closed circle above it and draw an arrow pointing towards the left.



Now let's check. To check, we can use any number that's less than or equal to 3. Let's choose $p = 0$.

$$3 + p \leq 6$$
$$3 + 0 \stackrel{?}{\leq} 6$$
$$3 \leq 6 \checkmark$$

Solve, graph and check.

$$p + 5 > 7$$

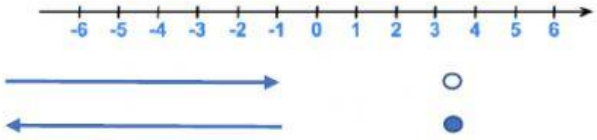
To solve this inequality, I need to from both sides.

$$p + 5 > 7$$
$$p >$$

We need to graph the solution on the number line.

Locate the number on the number line. Draw a circle above it and draw an arrow pointing towards the

Drag and drop the correct arrow and circle on the number line.



Now let's check. To check, we can use any number that's

Let's choose $p =$

$$p + 5 \stackrel{?}{>} 7$$
$$+5 > 7$$
$$> \checkmark$$