

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.

$$\begin{array}{r} 3 + p \leq 6 \\ -3 \quad -3 \\ \hline p \leq 3 \end{array}$$

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 $p = 0$.

$$\begin{array}{l} 3 + p \leq 6 \\ 3 + 0 \stackrel{?}{\leq} 6 \\ 3 \leq 6 \checkmark \end{array}$$

Solve, graph and check.

$$p + 5 > 7$$

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

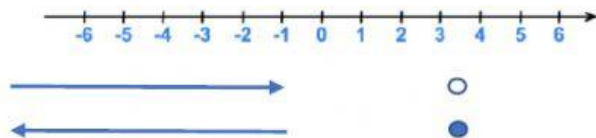
$$p + 5 > 7$$

$$\underline{\hspace{2cm}} p > \underline{\hspace{2cm}}$$

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 $p =$ _____

$$\begin{array}{l} p + 5 \stackrel{?}{>} 7 \\ +5 > 7 \\ > \checkmark \end{array}$$

