**Solving a Two-Step Inequalities**

Solve each inequality:

1. 2x + 7 > 11 2. 5h – 4 ≥ 11

-7 -7 🡨 USE INVERSE OPERATION 🡪 + 4 +4

2x + 0 > 4 5h + 0 ≥ 15

2x/2 > 4/2 🡨 USE DIVISION OF COEFFICIENT 🡪 5h/5 ≥ 15/5

**x > 2**  **h ≥ 3**

Scenario:

Brianna wants to complete the **first 3 miles** of a **10-mile** run in **45 minutes** **or less** running at a steady **pace**. The inequality 10 – 0.75p ≤ 7 can be used to find p, the pace, in miles per hour, she can run to reach her goal. Solve the inequality.

Step(1): Write the inequality

\*\*\*As per the problem, it is already done for you\*\*\*

**10 – 0.75p ≤ 7**

Step(2): Solve the inequality

10 – 0.75p ≤ 7

-10 -10 🡨 Use **inverse** operation of constant on left side

0 – 0.75p ≤ -3

🡨Use **division** of coefficient (-0.75), **reverse symbol**

**P ≥ 4**

**\*\*Reverse Symbol used because we are dividing by a negative number (-0.75)\*\***