**Learning Outcome 6B:** I can solve equations with variables on both sides of the equation.

**Question 1:**

Two times a number add five is equal to three times **the same number** subtract seven. What is this number?

**Step 1:**  Model this situation as an algebraic equation:

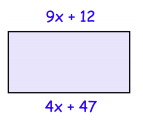
**Step 2:** Move variables to one side of the equation

Variable on right side. Variable on left side.

**Step 3:** Solve the equation using balancing method

**Question 2:**

Below is a picture of a rectangle. What equation could you form to help you solve what “x” is?



Exercises: **Solve** each of the following equations using whatever way you wish.

a.  b. 

1.  d) 

**Home Practice:**

Solve each of the following equations:

1.  2. 

3.  4. 

5.  6. 

7.  8. 

**Home Practice:** P.281: 4, 12, 13 Challenge: 23