## Balance Problems and Equations 1

Here you see a pan balance, or scales, and some things on both pans. Each rectangle represents an unknown (and "weighs" the same, or has the same value).

Since the balance is balanced (neither pan is going down-they are level with each other), the two sides (pans) of the scales weigh the same.

This portrays a mathematical equation: what is in the left pan equals what is in the right pan. (Things in the same pan are simply added. )

The equation is:

$5+\square+\square=11$
(If it helps you, you can think of kilograms or pounds.)
When we figure out how much the unknown shape weighs, we solve the equation.
The solution is: $\square=3$

1. Write an equation for each balance. Then use mental math to solve how much each geometric shape "weighs." You can write a number inside each of the geometric shapes to help you.

