

Scales Problems

This is a pan balance or scales. Things go into the two “pans”, and the heavier pan will go down, like in a seesaw.

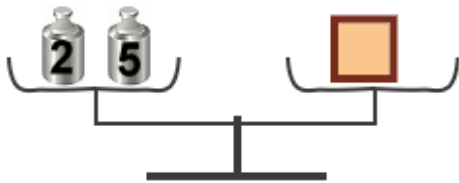
If the two things weigh the same, the balance stays balanced.

We can use the pan balance as a model for *equations* — number sentences with an unknown.

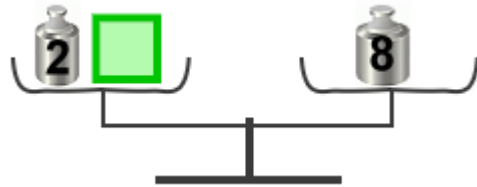
In this lesson you will solve many equations using the scales.



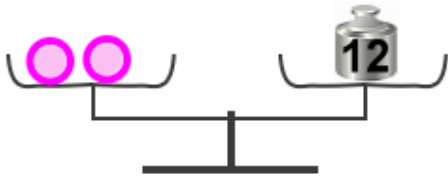
1. Solve how much each geometric shape “weighs”. You can imagine in your mind the shapes and weights weighing so many pounds or kilograms, if it helps.



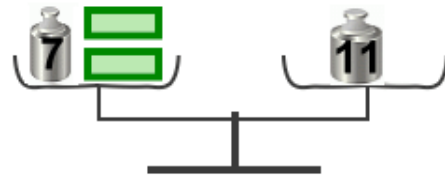
a. The square weighs _____



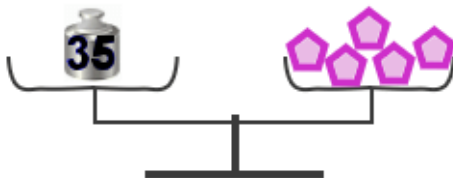
b. The square weighs _____



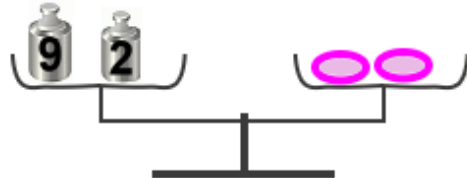
c. One ball weighs _____



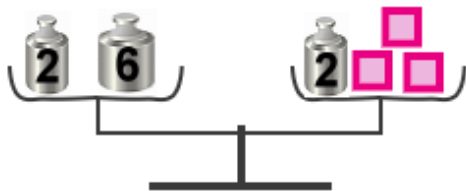
d. One rectangle weighs _____



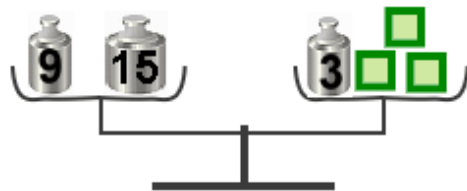
e. One pentagon weighs _____



f. One oval weighs _____



g. One square weighs _____



h. One square weighs _____