

Balance Scales

Concept — ANSWER KEY

Solve for the unknown bag X.

Think: Take the SAME amount off both pans and the scale still balances.

1. How heavy is the bag? Find X so the scale balances.

1)

$$\boxed{X + 8}$$

=

$$\boxed{8}$$

$$X = 0$$

2)

$$\boxed{X + 4}$$

=

$$\boxed{15}$$

$$X = 11$$

3)

$$\boxed{X + 5}$$

=

$$\boxed{15}$$

$$X = 10$$

4)

$$\boxed{X + 5}$$

=

$$\boxed{16}$$

$$X = 11$$

5)

$$\boxed{X - 2}$$

=

$$\boxed{10}$$

$$X = 12$$

6)

$$\boxed{X + 12}$$

=

$$\boxed{16}$$

$$X = 4$$