

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)

$$\boxed{X + 7}$$

=

$$\boxed{20}$$

$$X = 13$$

2)

$$\boxed{X - 3}$$

=

$$\boxed{8}$$

$$X = 11$$

3)

$$\boxed{X + 6}$$

=

$$\boxed{20}$$

$$X = 14$$

4)

$$\boxed{X + 10}$$

=

$$\boxed{17}$$

$$X = 7$$

5)

$$\boxed{X + 1}$$

=

$$\boxed{3}$$

$$X = 2$$

6)

$$\boxed{X + 12}$$

=

$$\boxed{15}$$

$$X = 3$$