

Balance Scales

Practice — ANSWER KEY

More than one bag on a pan.

Think: Two equal bags together weigh double one bag. Undo the extra weight first.

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

1)

$$\boxed{X + 1}$$

=

$$\boxed{5}$$

$$X = 4$$

2)

$$\boxed{X + 7}$$

=

$$\boxed{10}$$

$$X = 3$$

3)

$$\boxed{X + X + 5}$$

=

$$\boxed{25}$$

$$X = 10$$

4)

$$\boxed{X + 2}$$

=

$$\boxed{9}$$

$$X = 7$$

5)

$$\boxed{X + 4}$$

=

$$\boxed{12}$$

$$X = 8$$

6)

$$\boxed{X + 3}$$

=

$$\boxed{12}$$

$$X = 9$$