

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)

$$\boxed{X + 6}$$

=

$$\boxed{15}$$

$$X = 9$$

2)

$$\boxed{X + X + 3}$$

=

$$\boxed{19}$$

$$X = 8$$

3)

$$\boxed{X + 7}$$

=

$$\boxed{15}$$

$$X = 8$$

4)

$$\boxed{X + X + X + 1}$$

=

$$\boxed{34}$$

$$X = 11$$

5)

$$\boxed{X + 2}$$

=

$$\boxed{11}$$

$$X = 9$$

6)

$$\boxed{X + X + 1}$$

=

$$\boxed{15}$$

$$X = 7$$