

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)

$$\boxed{X + 8} = \boxed{13}$$

$$X = 5$$

2)

$$\boxed{X + X + X + 4} = \boxed{34}$$

$$X = 10$$

3)

$$\boxed{X + 8} = \boxed{20}$$

$$X = 12$$

4)

$$\boxed{X} = \boxed{8}$$

$$X = 8$$

5)

$$\boxed{X + X + 4} = \boxed{28}$$

$$X = 12$$

6)

$$\boxed{X + X + 1} = \boxed{25}$$

$$X = 12$$