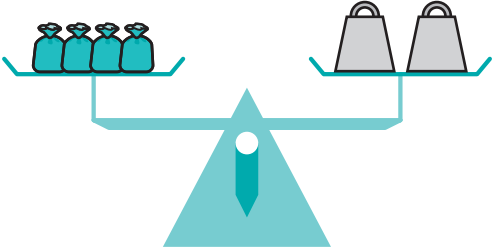


# Using Equations to Estimate

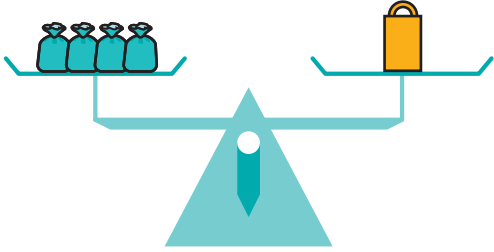
NCTM Standards 1, 2, 4, 6, 7, 8, 9, 10

Using shorthand notation, write an equation to describe each picture.

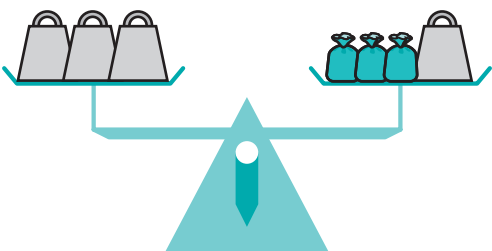
 = 1 kg     = 1 lb

**1** 


$4x = 2 \text{ kg}$

**2** 

\_\_\_\_\_ = \_\_\_\_\_

**3** 

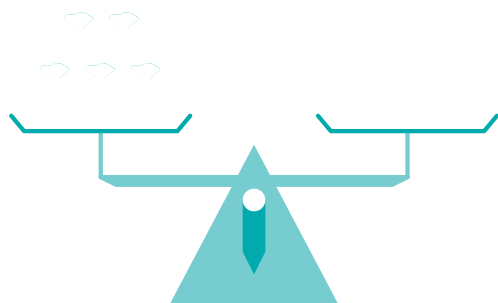
\_\_\_\_\_ = \_\_\_\_\_ + \_\_\_\_\_

**4** 

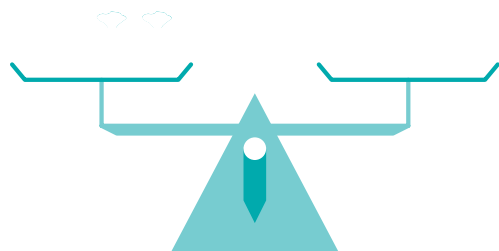
\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Draw a picture to match the equation.

**5**  $5x = 3 \text{ lb}$



**6**  $2x + 1 \text{ lb} = 5 \text{ kg}$



Complete the number sentences.

7

$$\underline{\hspace{2cm}} \text{ g} = 1 \text{ kg}$$

8

$$\underline{\hspace{2cm}} \text{ oz} = 1 \text{ lb}$$

9

$$\underline{\hspace{2cm}} \text{ oz} = 5 \text{ lb}$$

10

$$\underline{\hspace{2cm}} \text{ g} = \frac{1}{2} \text{ kg}$$

What is  $x$ ?

11  $x + 750 \text{ g} = 1 \text{ kg}$

$$x = \underline{\hspace{2cm}}$$

12  $1 \text{ lb} - x = 12 \text{ oz}$

$$x = \underline{\hspace{2cm}}$$

13  $3 \text{ kg} = x + 2,000 \text{ g}$

$$x = \underline{\hspace{2cm}}$$

14  $3 \text{ oz} + x = 2 \text{ lb}$

$$x = \underline{\hspace{2cm}}$$



15 **Challenge** 9 bags weigh 5 kg, and 13 boxes weigh 6 kg. Which is heavier, a bag or a box? Explain your answer.

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