Lesson 4 Practice Problems

1. Here are three stories:

   - A family buys 6 tickets to a show. They also pay a $3 parking fee. They spend $27 to see the show.

   - Diego has 27 ounces of juice. He pours equal amounts for each of his 3 friends and has 6 ounces left for himself.
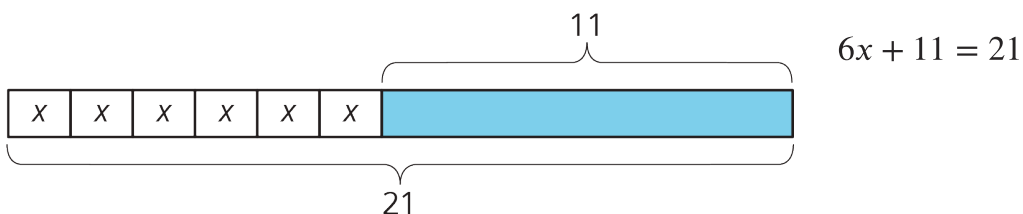
   - Jada works for 6 hours preparing for the art fair. She spends 3 hours on a sculpture and then paints 27 picture frames.

   Here are three equations:

   - $3x + 6 = 27$
   - $6x + 3 = 27$
   - $27x + 3 = 6$

   a. Decide which equation represents each story. What does x represent in each equation?

   b. Find the solution to each equation. Explain or show your reasoning.

   c. What does each solution tell you about its situation?

2. Here is a diagram and its corresponding equation. Find the solution to the equation and explain your reasoning.
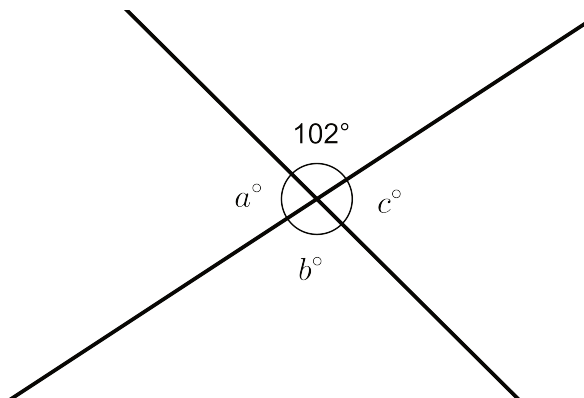
$$6x + 11 = 21$$

3. For each object, choose an appropriate scale for a drawing that fits on a regular sheet of paper. Not all of the scales on the list will be used.

Objects

   a. A person

   b. A football field (120 yards by $53\frac{1}{3}$ yards)

   c. The state of Washington (about 240 miles by 360 miles)

   d. The floor plan of a house

   e. A rectangular farm (6 miles by 2 mile)

Scales

   ○ 1 in : 1 ft

   ○ 1 cm : 1 m

   ○ 1: 1000

   ○ 1 ft: 1 mile

   ○ 1: 100,000

   ○ 1 mm: 1 km

   ○ 1: 10,000,000

(From Unit 2, Lesson 7.)

4. The diagram shows two intersecting lines.

Find the missing angle measures.

(From Unit 1, Lesson 12.)

Accelerated 7 Unit 3

Lesson 4

CC BY Open Up Resources. Adaptations CC BY IM.

2