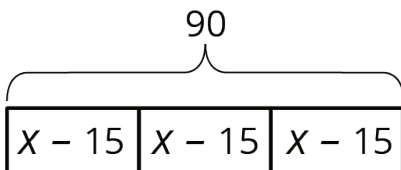NAME   DATE   PERIOD
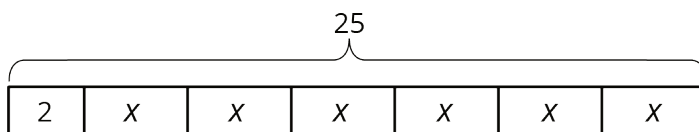
Unit 6, Lesson 6: Distinguishing between Two Types of Situations

1. A school ordered 3 large boxes of board markers. After giving 15 markers to each of 3 teachers, there were 90 markers left. The diagram represents the situation. How many markers were originally in each box?

$$90$$

| $x - 15$ | $x - 15$ | $x - 15$ |

(from Unit 6, Lesson 2)

2. The diagram can be represented by the equation $25 = 2 + 6x$. Explain where you can see the 6 in the diagram.

$$25$$

| 2 | x | x | x | x | x | x |

(from Unit 6, Lesson 3)

3. Elena walked 20 minutes more than Lin. Jada walked twice as long as Elena. Jada walked for 90 minutes. The equation $2(x + 20) = 90$ describes this situation. Match each amount in the story with the expression that represents it.

NAME   DATE   PERIOD

A. The number of minutes
   that Jada walked

1. x

2. $x + 20$

B. The number of minutes
   that Elena walked

3. $2(x + 20)$

C. The number of minutes
   that Lin walked

4. 90

4. Match each equation to a story. (Two of the stories match the same equation.)

1. $3(x + 5) = 17$

2. $3x + 5 = 17$

3. $5(x + 3) = 17$

4. $5x + 3 = 17$

1. Jada's teacher fills a travel bag with 5 copies of a textbook. The weight of the bag and books is 17 pounds. The empty travel bag weighs 3 pounds. How much does each book weigh?

2. A piece of scenery for the school play is in the shape of a 5-foot-long rectangle. The designer decides to increase the length. There will be 3 identical rectangles with a total length of 17 feet. By how much did the designer increase the length of each rectangle?

3. Elena spends $17 and buys a $3 book and a bookmark for each of her 5 cousins. How much does each bookmark cost?

4. Noah packs up bags at the food pantry to deliver to families. He packs 5 bags that weigh a total of 17 pounds. Each bag contains 3 pounds of groceries and a packet of papers with health-related information. How much does each packet of papers weigh?

5. Andre has 3 times as many pencils as Noah and 5 pens. He has 17 pens and pencils all together. How many pencils does Noah have?