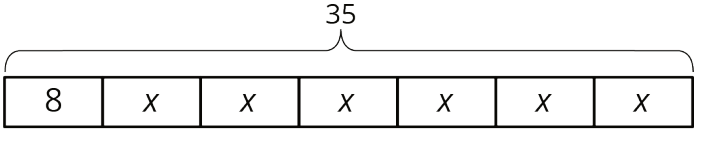
Lesson 3 Practice Problems

1. Draw a tape diagram to match each equation.

   a. $5(x + 1) = 20$

   b. $5x + 1 = 20$

2. Select **all** the equations that match the tape diagram.



   A. $35 = 8 + x + x + x + x + x + x$

   B. $35 = 8 + 6x$

   C. $6 + 8x = 35$

   D. $6x + 8 = 35$

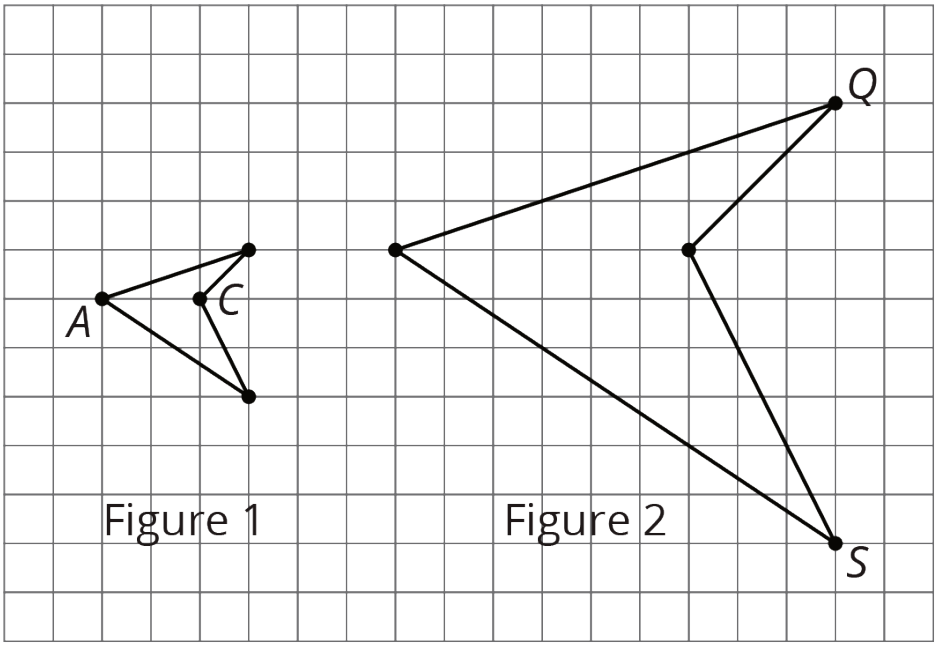
   E. $6x + 8x = 35x$

   F. $35 - 8 = 6x$

3. Point B has coordinates $(-2, -5)$. After a translation 4 units down, a reflection across the y-axis, and a translation 6 units up, what are the coordinates of the image?

   (From Unit 1, Lesson 5.)

4. Figure 2 is a scaled copy of Figure 1.



a. Identify the points in Figure 2 that correspond to the points A and C in Figure 1. Label them P and R. What is the distance between P and R?

b. Identify the points in Figure 1 that correspond to the points Q and S in Figure 2. Label them B and D. What is the distance between B and D?

c. What is the scale factor that takes Figure 1 to Figure 2?

d. G and H are two points on Figure 1, but they are not shown. The distance between G and H is 1. What is the distance between the corresponding points on Figure 2?

(From Unit 2, Lesson 3.)