Unit 1 Lesson 3: Making Scaled Copies

1 More or Less? (Warm up)

Student Task Statement

For each problem, select the answer from the two choices.

1. The value of $25 \cdot (8.5)$ is:

   a. More than 205

   b. Less than 205

2. The value of $(9.93) \cdot (0.984)$ is:

   a. More than 10

   b. Less than 10

3. The value of $(0.24) \cdot (0.67)$ is:

   a. More than 0.2

   b. Less than 0.2

2 Drawing Scaled Copies (Optional)

Student Task Statement
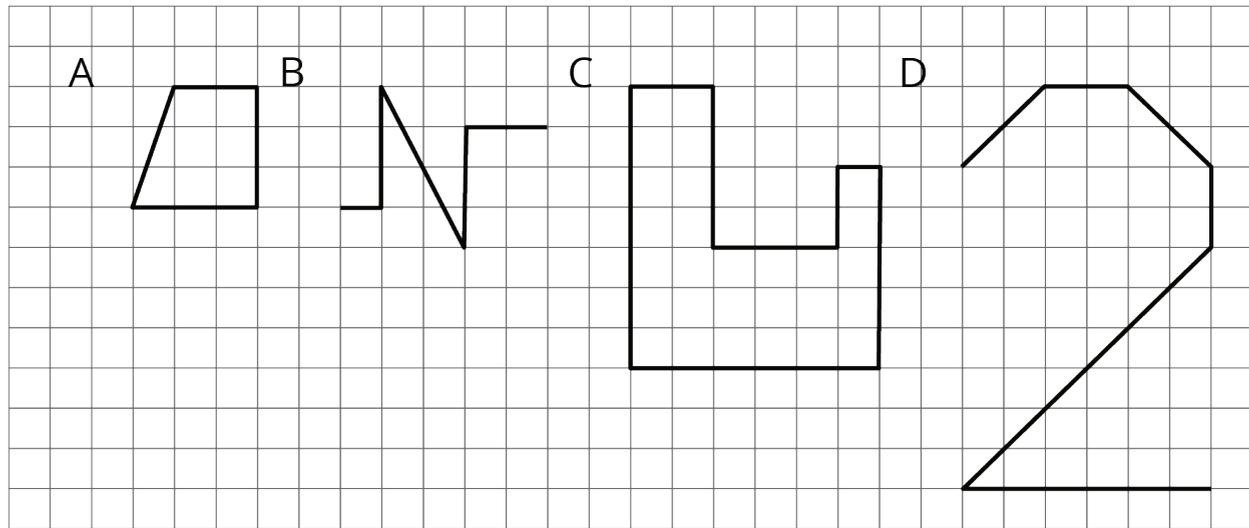
1. Draw a scaled copy of either Figure A or B using a scale factor of 3.

2. Draw a scaled copy of either Figure C or D using a scale factor of $\frac{1}{2}$.

3 Which Operations? (Part 1)

Student Task Statement

Diego and Jada want to scale this polygon so the side that corresponds to 15 units in the original is 5 units in the scaled copy.
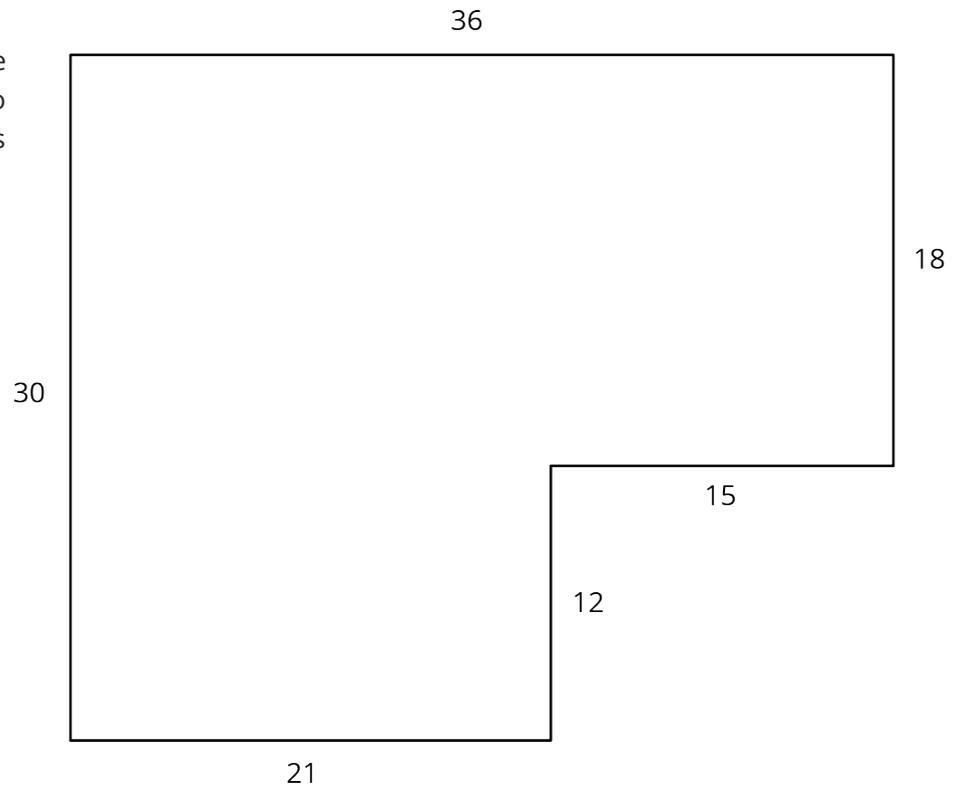
Diego and Jada each use a different operation to find the new side lengths. Here are their finished drawings.
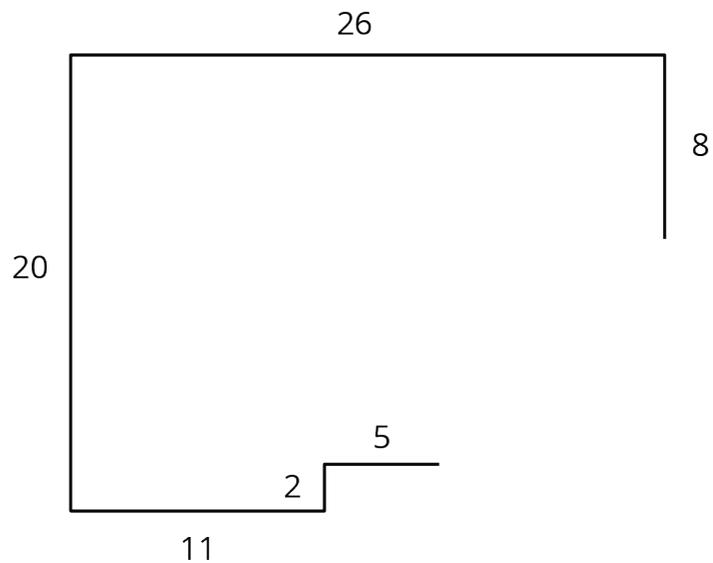
Diego's drawing
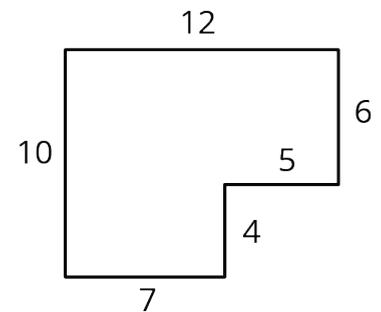
Jada's drawing

1. What operation do you think Diego used to calculate the lengths for his drawing?

2. What operation do you think Jada used to calculate the lengths for her drawing?

3. Did each method produce a scaled copy of the polygon? Explain your reasoning.

4 Which Operations? (Part 2)

Student Task Statement

Andre wants to make a scaled copy of Jada's drawing so the side that corresponds to 4 units in Jada's polygon is 8 units in his scaled copy.

1. Andre says "I wonder if I should add 4 units to the lengths of all of the segments?" What would you say in response to Andre? Explain or show your reasoning.

2. Create the scaled copy that Andre wants. If you get stuck, consider using the edge of an index card or paper to measure the lengths needed to draw the copy.

Jada's drawing