

# Learning Targets

## Scale Drawings

### Lesson 1: What are Scaled Copies?

- I can describe some characteristics of a scaled copy.
- I can tell whether or not a figure is a scaled copy of another figure.

### Lesson 2: Corresponding Parts and Scale Factors

- I can describe what the scale factor has to do with a figure and its scaled copy.
- In a pair of figures, I can identify corresponding points, corresponding segments, and corresponding angles.

### Lesson 3: Making Scaled Copies

- I can draw a scaled copy of a figure using a given scale factor.
- I know what operation to use on the side lengths of a figure to produce a scaled copy.

### Lesson 4: Scaled Relationships

- I can use corresponding distances and corresponding angles to tell whether one figure is a scaled copy of another.
- When I see a figure and its scaled copy, I can explain what is true about corresponding angles.
- When I see a figure and its scaled copy, I can explain what is true about corresponding distances.

### Lesson 5: The Size of the Scale Factor

- I can describe the effect on a scaled copy when I use a scale factor that is greater than 1, less than 1, or equal to 1.
- I can explain how the scale factor that takes Figure A to its copy Figure B is related to the scale factor that takes Figure B to Figure A.

### Lesson 6: Scaling and Area

- I can describe how the area of a scaled copy is related to the area of the original figure and the scale factor that was used.

### **Lesson 7: Scale Drawings**

- I can explain what a scale drawing is, and I can explain what its scale means.
- I can use actual distances and a scale to find scaled distances.
- I can use a scale drawing and its scale to find actual distances.

### **Lesson 8: Scale Drawings and Maps**

- I can use a map and its scale to solve problems about traveling.

### **Lesson 9: Creating Scale Drawings**

- I can determine the scale of a scale drawing when I know lengths on the drawing and corresponding actual lengths.
- I know how different scales affect the lengths in the scale drawing.
- When I know the actual measurements, I can create a scale drawing at a given scale.

### **Lesson 10: Changing Scales in Scale Drawings**

- Given a scale drawing, I can create another scale drawing that shows the same thing at a different scale.
- I can use a scale drawing to find actual areas.

### **Lesson 11: Scales without Units**

- I can explain the meaning of scales expressed without units.
- I can use scales without units to find scaled distances or actual distances.

### **Lesson 12: Units in Scale Drawings**

- I can tell whether two scales are equivalent.
- I can write scales with units as scales without units.

### **Lesson 13: Draw It to Scale**

- I can create a scale drawing of my classroom.
- When given requirements on drawing size, I can choose an appropriate scale to represent an actual object.