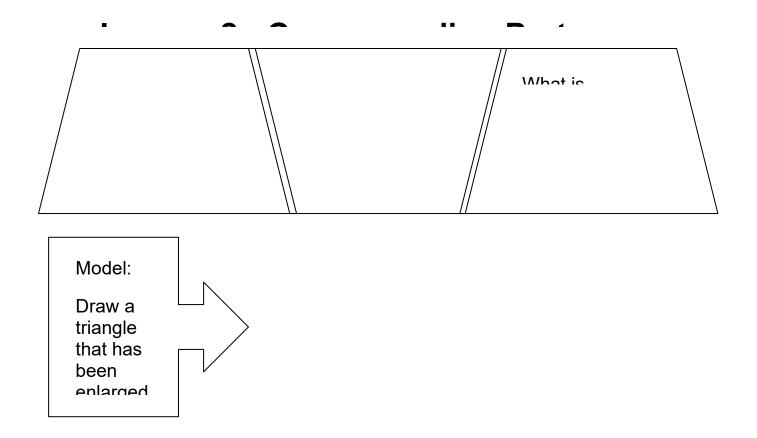
Lesson 1: What Are Scaled Copies?

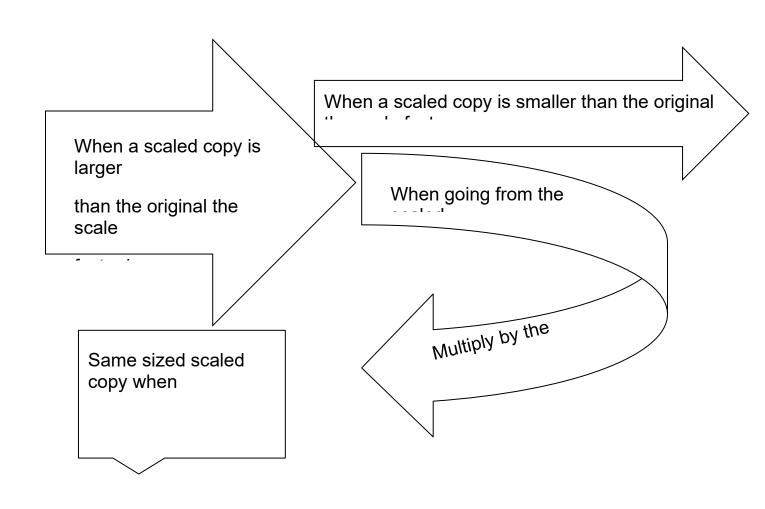
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Lesson 3: Making Scaled Copies

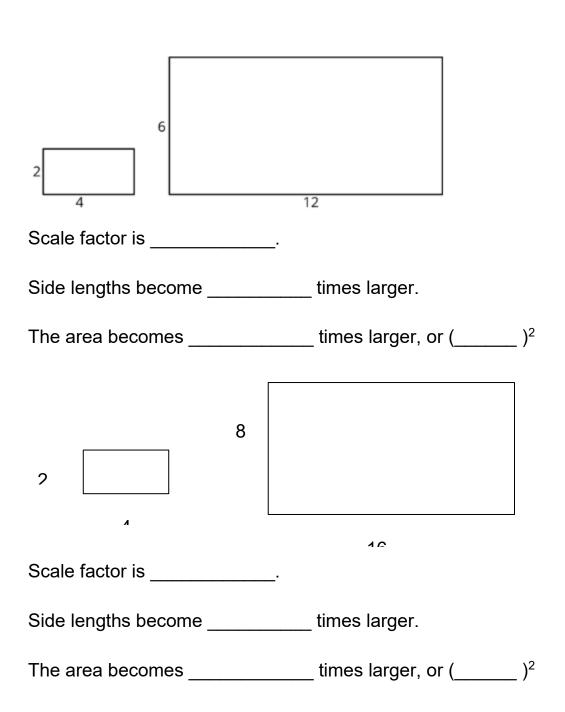
Scale Factor: see lesson 2	
Lesson 4: Scaled Relationships	
When a figure is a figure we know that:	of another
1.	
2.	

Lesson 5: The Size of the Scale Factor



Lesson 6: Scaling and Area

Scaling effects side lengths and area **DIFFERENTLY!**



Lesson 7: Scale Drawings

What	are scaled drawings?
Summar	у

Lesson 8: Scale Drawings and Maps

Once a distance is known....

Once a speed is known..... **Lesson 9: Creating Scale Drawings** The size of the scale determines the size of the drawing. You can have different-sized scale drawings of the same actual object, but

the size of the actual object doesn't change.

•	Suppose there are two scale drawings of the same house.
	One uses the scale of 1 cm to 2m, and the other uses the
	scale 1 cm to 4 m. Which drawing is larger? Why?

• Another scale drawing of the house uses the scale of 5 cm to 10m. How does its size compare to the other two?

Lesson 10: Changing Scales in Scale Drawings

Sometimes we have a scale drawing and want to reproduce it at a different scale. Two common approaches are:

Suppose you have a map that uses the scale 1 cm to 200 m. You draw a new map of the same place using the scale 1 cm to 20 m.

. How does your new map compare to your original map?

• How much actual area does 1 cm^2 on your new map represent?

• How much actual area did 1 cm² on your original map represent?

Lesson 11: Scales Without Units

• What does it mean when the scale on a scale drawing does not indicate any units?

How is a scale without units the same as or different from a scale with units?
How can a scale without units be used to calculate scaled or actual distances?
Lesson 12: Units in Scale Drawings
Scales can be expressed in many different ways, including using different units or not using any units.
• How can we express the scale 1 inch to 5 miles without units?

A scale tells us how a distance on a scale drawing corresponds to an actual distance, and it can also tell us how an area on a drawing corresponds to an actual area.
If a map uses the scale 1 inch to 5 miles:
• How can we find the actual area of a region represented on the map?

How can we find a region's scaled area if we know its actual area?