Grade: 8 Wath	Mastery Check	
1Benchmark #: 8.3.1.A1a	3	
Scale		
State Language:	Student Friendly Language:	
Solves real-world problems by: a) using the properties	Use ratio and proportion, involving scale and similar figures in real-world	
of corresponding parts of similar and congruent	problems.	
figures.		
Concept (Students will know):	Skills (Students will do):	DOK Level:
 Definition of similar and congruent figures. 	Define similar figures and congruent	2
 Know what scale is. 	 Identify types of problems as ratio/proportion problems. 	
 Know how to work any kind of proportion 	Solve ratio/proportion problems	
problem that involves scale drawings or	Determine a problem as a scale problem and work it	
models, similar figures, and maps.	with a proportion.	
 Know when to apply the proportion concept 	Solve proportions when it involves similar figures, finding	
to any real-world problem.	the corresponding lengths.	
Know how to find the unknown quantities in	Look at a map and find the actual distance.	
variety of situations.		
Know what the word "dimensions" mean		
	the key for a floor plan.	
when related to a floor plan or the	Find the dimensions of a room, given the scale of the	
measurement of a object.	floor plan.	

Mastery Check

Big Ideas:

Grade:

8 Math

Looking at a real life problem and interpret it as a ratio proportion problem, involving scale, similar figures, with corresponding parts, and maps. Distinguishing a real life problem as a ratio problem.

Essential Questions:

- How do you solve a proportion.?
- What is the definition of similar figures?congruent figures?
- What do we mean by the term "dimensions"?
- Looking at a blue print, what is the length of the unknown side of a room when the scale is ¼ in = 2 ft?
- What is the actual distance from point A to Point B when looking at a map with the key being 20 miles =1/2 in?
- Looking at the pictures of similar figures, what is the length of the corresponding sides given the lengths shown?
- The scale of a model of a car is 1/24th. Looking at the picture, what would be the actual length of the door?
- What is the length on a floor plan given the scale, when the length of the room is 20ft
- What are the dimensions of a room, given the scale, when the floor plan shows the length to be 1in x 2.5 in?

Core Materials	Supplemental Materials:
Glencoe Pre-Algebra book	 Resource materials from the Glencoe series
	Teacher-generated materials
	Study Island
	Other technologies
	Model cars or other models to relate to scale
	 Scale drawing of various objects.
	• maps
Tooching Strataging	

Teaching Strategies:

- Show a model and compare it to a real life object.
- Show blue prints the relationship to a real building.
- Teach the vocabulary for scale.
- Hands on finding the size of something given a scale.

Mastery Check Items: