

Chapter 6 – Similarity

Chapter 6:

- Use similar figures to determine segment length.
- Solve problems using scale factors and proportions
- Apply information from scale drawings and models to solve problems.
- Solve problems involving similar figures.
- Solve problems involving overlapping figures in two-dimensions.

Standard 6.1 –

Use similar figures to determine segment length.

Task: Describe in a journal what a similar figure is, and how you can use it to set up a problem and solve for a missing piece. Also, describe how you see similar figures in the real world.

Rubric

	0	1	2	3
Definition of a similar figure	Did not give a definition of a similar figure	Found and wrote a definition of similar figures		
Description of how to solve for a missing piece	Did not give a description for how to find a missing piece	Gave a description but was incorrect	Gave a description with missing information	Description was accurate and to the point
Describe where you see similar figures in the real world	Did not describe at all	Gave a description but did not link the math to the real world	Gave a description but didn't explain how they saw the math in the real world	Description was great. Good links to both the math and the real world

Standard 6.2, 6.3, 6.4, 6.5

- Solve problems using scale factors and proportions

- Apply information from scale drawings and models to solve problems.
- Solve problems involving similar figures.
- Solve problems involving overlapping figures in two-dimensions.

Task: Find the height of any building downtown Naperville by use of similar figures, or scale factors and or shadows. Draw a picture of your problem and solve it, you will hand in a description of your steps and your drawing.

Rubric

	0	1	2	3
Problem Set up	There is no set up to the problem	Set up is minimal, no explanation on the problem	Set up includes a diagram and good explanation	Set up is perfect, a recreation of the real life problem
Mathematical steps	No Steps	Steps have been started but not finished or finished incorrectly	Steps are clear understandable but a small error in calculations was made	Steps are perfect
Correct solution	Solution is incorrect			Solution is correct