Name_____   Date _____

Mr. Tallman

Homework #31 – Scale Drawings and Scale Factor

Use the word bank to answer questions 1-4

Word Bank			
Enlargement	Reduction	Scale Drawing	Scale Factor

1) Another name for the constant of proportionality when dealing with scale drawings is the _____.

2) A scale drawing that is *smaller* than the actual object is called a(n) _____

3) A scale drawing that is *larger* than the actual object is called a(n) _____

4) A drawing that is proportional to an original object and is either an enlargement or reduction of the original object is called a _____

Identify the following diagrams as either an enlargement or reduction.

5) _____   Actual Picture   b.   Scale Drawing
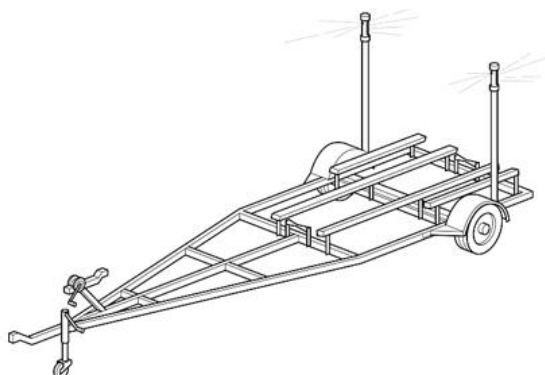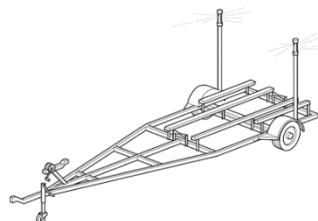

6) _____
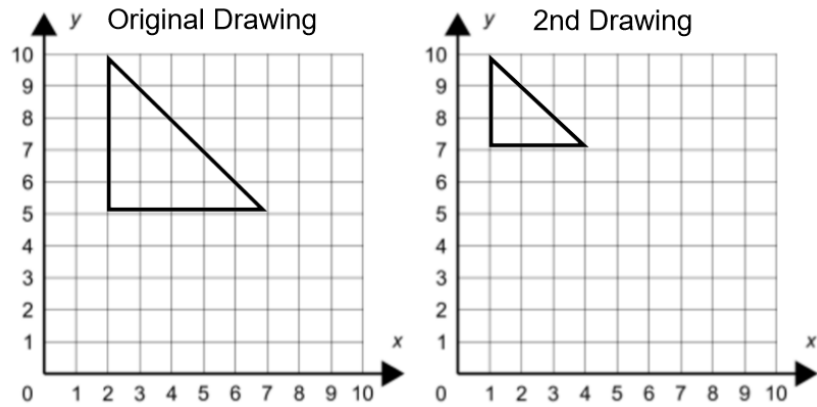
    Actual Picture   Scale Model

Use the following diagram to answer questions 7-9.

7) Is the second drawing a scale drawing of the first? Show all work.

Original Drawing

2nd Drawing

8) What is the scale factor? _____

9) Is the second drawing an enlargement or a reduction of the original? Explain. Use the scale factor in your explanation.

_____

Review

Solve the following proportions. Round to the nearest tenth if necessary.

1) $\dfrac{78}{36} = \dfrac{26}{a}$	2) $\dfrac{30}{b} = \dfrac{19.9}{51.6}$
3) The cost of 31 kg of tomatoes is $155. How much would 2 kg cost?	4) A car travels 195 kilometers in 1.7 hours. If the speed of the boat is constant, how long would it take for the boat to travel 282 kilometers?