Marea	
Name	*.

Date

Mr. Tallman

## <u>Homework #31 - Scale Drawings and Scale Factor</u>

## Use the word bank to answer questions 1-4

Word Bank				
Enlargement	Reduction	Scale Drawing	Scale Fact	or

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

the Scale Hictor

2) A scale drawing that is *smaller* than the actual object is called  $a(n) = \frac{1}{2}$ 

1 Scothon

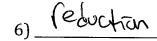
## Identify the following diagrams as either an enlargement or reduction.

5) en lorgement

**Actual Picture** 

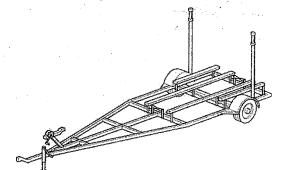
b. Scale Drawing

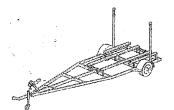




**Actual Picture** 

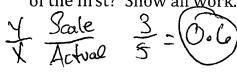
Scale Model



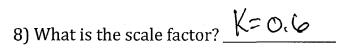


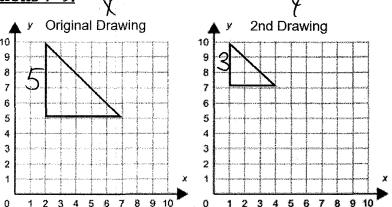
Use the following diagram to answer questions 7-9.

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



Scale drawing!



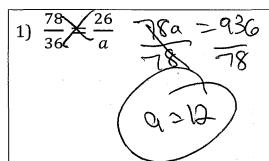


9) Is the second drawing an enlargement or a reduction of the original? Explain. Use the scale factor in your explanation.

Reduction Since the Scale factor is less than 1

## **Review**

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



2)  $\frac{30}{b} \neq \frac{19.9}{51.6}$  19.96 = 1548 19.96 = 17.8

3) The cost of 31 kg of tomatoes is \$155. How much would 2 kg cost?



31 31 31 31



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?

