**Math 9: Scale Factors and Similarity Final Exam Review**

* **Enlargements and Reductions**
1. Drawn an enlargement of the figure using a scale factor of 2.
2. Draw a reduction of the figure using a scale factor of 0.5.
* **Scale Diagrams**
1. Determine the missing value.

1 = 13.5

1. ?
2. Determine the scale factor.

? = 30

? 225

1. What scale factor is used to create the image below?

The average height of a male giraffe is 6m.

* **Similar Triangles**
1. Are the following triangles similar?



**Questions to Review**

Page 136 # 6 – 12

 143 # 5 – 19

Scale Factors and Similarity Assignment 1

Page 151 # 6 – 11

 151 # 12 – 16, 18

 157 # 3 – 7, 9, 10, 12, 13, 15

Scale Factors and Similarity Assignment 2

Scale Factors and Similarity Test

1. ΔGHI is similar to ΔJKI. What is the missing side?
2. A ramp is built as shown below. What is the height of the ramp?
* **Similar Polygons**
1. Decide if the pair of polygons is similar.
2. Two regular octagons are shown below. What will the perimeter of the outer octagon be if its side length is 3 times that of the inner?