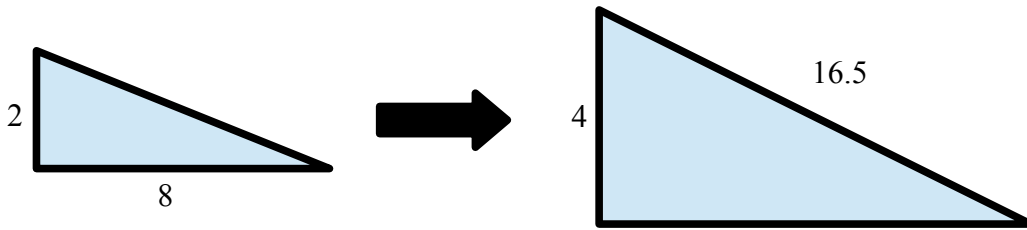
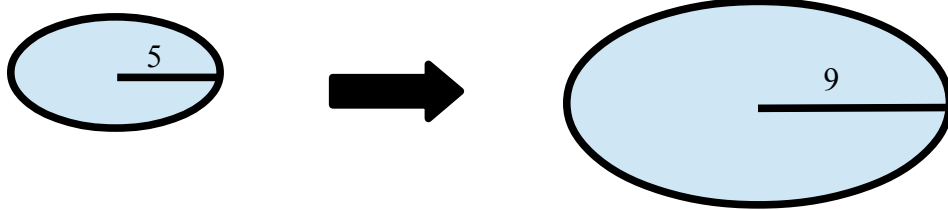


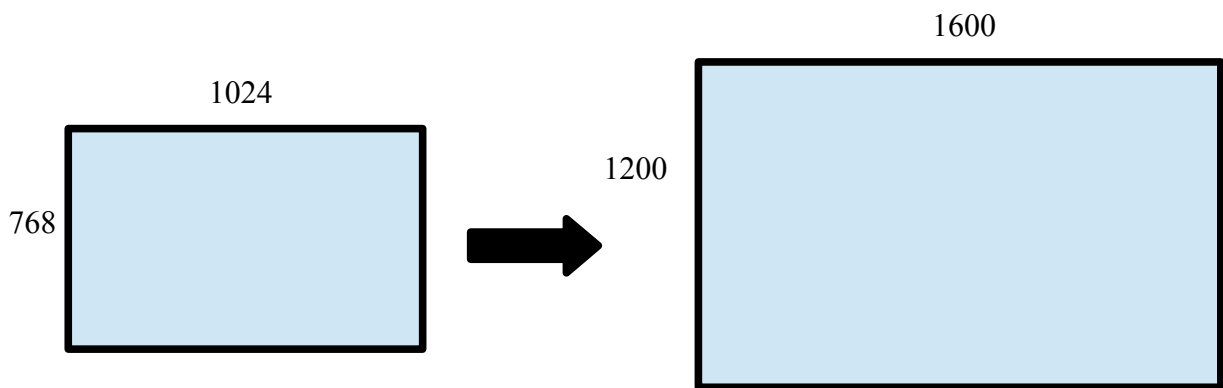
1. Determine the scale factor of the following enlargements:



Scale Factor: _____

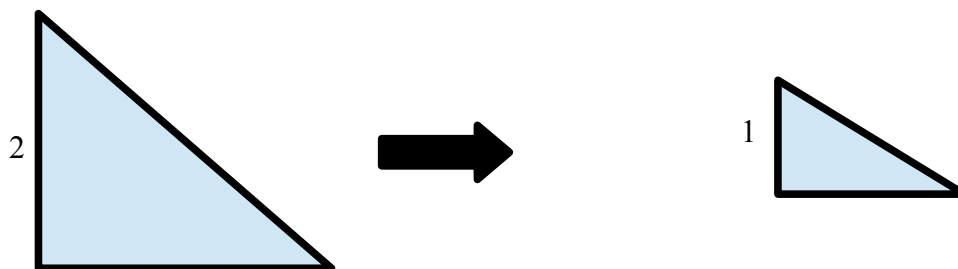


Scale Factor: _____

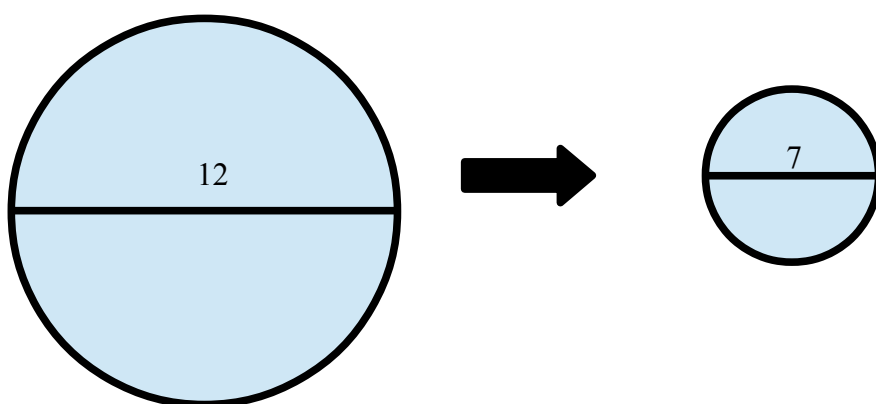


Scale Factor: _____

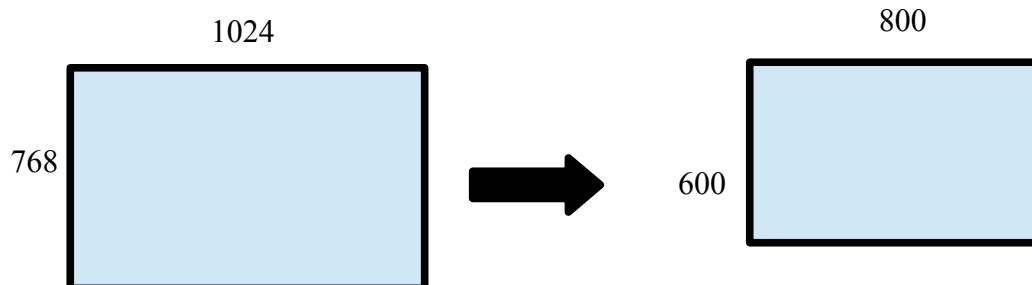
2. Determine the scale factor of the following reductions



Scale Factor: _____



Scale Factor: _____



Scale Factor: _____

3. A 3" x 3" square is reduced by a scale factor of 0.5. What are the new side lengths?
4. A 5' x 2' rectangle is enlarged by a scale factor of 5. What are the new side lengths?
5. A model train locomotive is 0.5 feet long, the real locomotive is 43.5 feet long. What is the scale factor of the reduction from real train to model?
6. The "Spitfire" was a British WWII plane, the real plane had a wingspan of 11.23 metres.
- What will the scale factor be of a model with a wingspan of 1 metre?
 - The real plane was 9.12 metres long, how long will the model be?
 - The real plane was 11ft, 5 inches in height, how tall will the model be?
7. A map is a $\frac{1}{10\,000}$ scale reduction of the real world. If two places are 20 cm apart on the map, how far apart are they in reality?

8. A designer is told to increase the size of an image by 40%, what is this as a scale factor?



9. The man above is six feet tall in real life.

a) Using a ruler measure how tall the man is in the picture and determine the scale factor of the picture as a reduction from real life.

b) Using a ruler measure the height of the truck in the picture and determine how tall the truck is in real life.

