Similar – Similar figures are figures that have the same shape, but may have different sizes.

All corresponding angles are congruent.

The lengths of all corresponding sides are proportional.

Dilation – A transformation in which a figure is magnified or shrinks, but keeps the same overall shape. The original figure is similar to the new image.

Scale Factor – The amount by which a figure is dilated. We multiply all of the lengths by the same scale factor to change the size.

A scale factor greater than 1 means the new image is bigger than the original.

A scale factor less than 1 means the new image is smaller than the original.

To find the scale factor, we divide:

New dimension ÷ Original dimension = Scale factor