# **Using Scale and Scale Factor**

Scale and scale factor are used to describe the ratio relationship between the dimensions of similar figures. Since the ratio is constant, it can be used to find missing dimensions.

#### Example:



The known dimensions 9:3 make a scale of 3:1 and a scale factor of  $\frac{1}{3}$ .

Multiply the known original dimension by the scale factor to find the unknown new dimension.

 $6 \times \frac{1}{3} = 2$ h = 2 cm

Determine the scale and scale factor for each pair of figures. Then use the scale factor



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## **ANSWER KEY**

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