

## **Predicting Shapes to Scale**

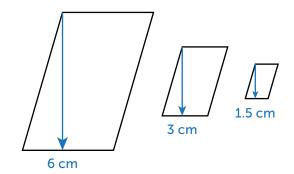
Name: Date:	
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Scale is the amount a measurement is multiplied by to create proportional model. For instance, if you have two proportional (with identical internal angles) rhombuses of different heights like these:

The larger rhombus is 2x the height of the smaller rhombus, or 2x scale of the smaller one.

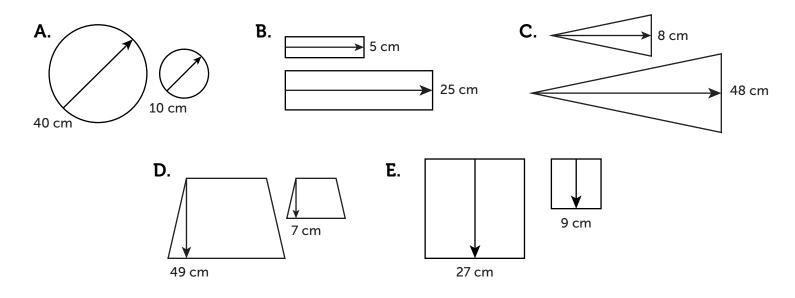
Conversely, the smaller rhombus is  $\frac{1}{2}$  x the height of the larger rhombus, or  $\frac{1}{2}$  x scale of the larger one.

To continue the pattern, predicting other shapes in the series is as easy as multiplying the dimensions by 2 or  $\frac{1}{2}$ . What do you notice about the third shape from the right:



## **Exercises**

**Directions**: Predict dimensions of the next shape in a set. The first exercise is done for you.



	Shape Set	Prediction
1.	Α	120 cm and/or 2.5 cm
2.	В	125 cm and/or 1 cm
3.	С	288 cm and/or 1/3 cm
4.	D	343 cm and/or 1 cm
5.	E	81 cm and/or 3 cm