Predicting Shapes to Scale

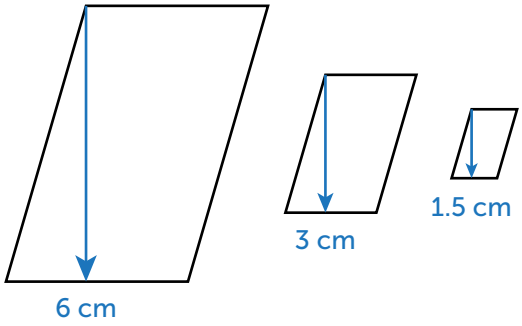
Name: _____ Date: _____

Scale is the amount a measurement is multiplied by to create proportional model. For instance, if you have two proportional (with identical internal angles) rhombus' 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 ½ x the height of the larger rhombus, or ½ x scale of the larger one.

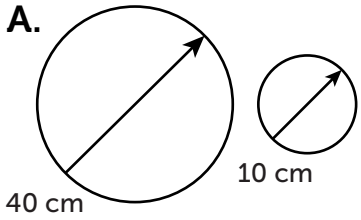
To continue the pattern, predicting other shapes in the series is as easy as multiplying the dimensions by 2 or ½ . What do you notice about the third shape from the right:



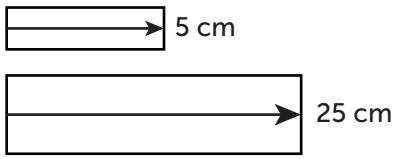
Exercises

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

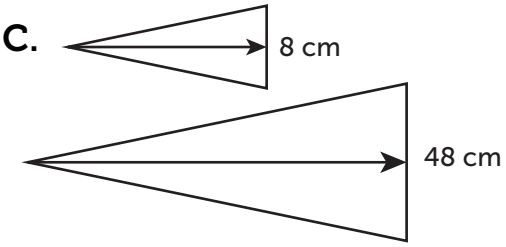
A.



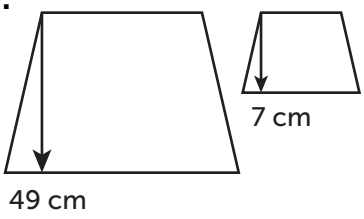
B.



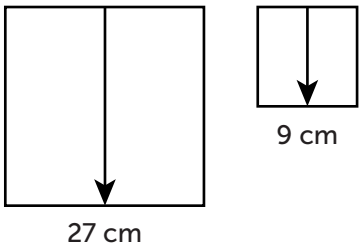
C.



D.



E.



	Shape Set	Prediction
1.	**A**	120 cm and/or 2.5 cm
2.	**B**	
3.	**C**	
4.	**D**	
5.	**E**	

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