

Scaling a Figure Worksheet

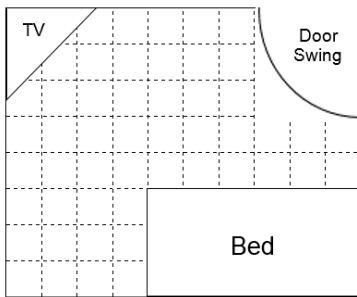
Learning Goal: *How does a figure or shape change when we enlarge or reduce it?*

Introduction

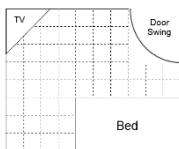
Below is floor plan for the interior design of a bedroom. Let's look at what happens to the items in the design when we enlarge or reduce them.

Instructions

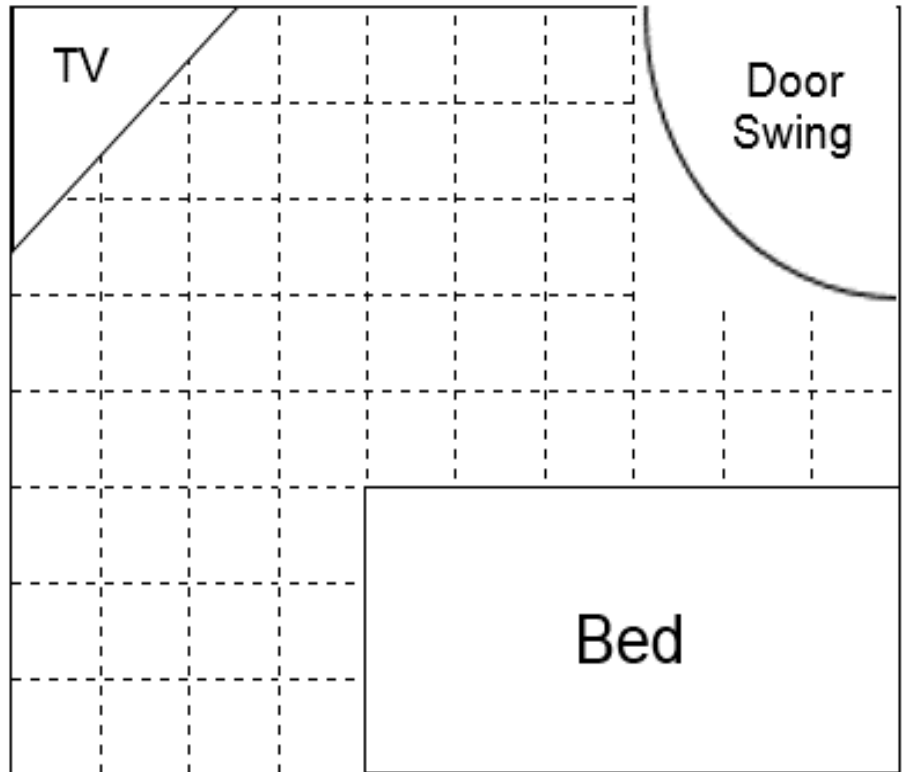
1. Measure and record the size and length of each part of the bedroom for the original, enlarged and reduced designs.
2. Calculate the perimeter and area for each design.
3. Answer the questions below.



Original



Reduced



Enlarged

Name: _____ Date: _____ Class: _____

Data Collection

1. Record your measurements and calculations for the *bedroom* in the table below.

Bedroom	Length	Width	Perimeter	Area	Angles
Original					
Enlarged					
Reduced					

2. Record your measurements and calculations for the *door swing* (quarter circle) below.

Door Swing	Radius	Circumference	Area	Angle
Original				
Enlarged				
Reduced				

3. Record your measurements and calculations for the *TV* in the table below.

TV	Length	Width	Perimeter	Area	Angles
Original					
Enlarged					
Reduced					

