Study the following.

<u>dimension</u> (duh-**men**-shuhn) — a measurement taken between two specific points on a 2-D or 3-D figure. Dimensions are needed to describe a 2-D figure or 3-D solid. These dimensions are then used to calculate amounts like area. (The dimensions of the rectangle were the numbers I needed to calculate area.) (I measured the dimensions of the cylinder.)

side (side) – the up and down distance of a figure (square).

width (width) – the short part of a rectangle.

length (lengkth) – the long part of a rectangle.

See the following for more detail.

base (bayss) – the bottom distance of a figure.

radius (ray-dee-uhss) – the distance from the center of a circle, to the circle.

Say each word out loud and write it in the blank.

dimension	
side	
width	
length	
height	
base	
radius	

Write the definition in your own words.

dimension side width

length

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height

base

radius

Write two sentences using each word.

dimension

1.

2.

Matching.

dimension a measurement taken between two specific

points on a 2-D or 3-D figure.

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side a dimension

width a dimension

length a dimension

height a dimension

base a dimension

radius a dimension

Study the following.

The first initial for each dimension is used in labeling drawings of plane figures. These initials are also used in calculations.

side = s

width = w

length = 1

height = h

base = b

radius = r

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Study the following.

The following diagrams show how to label different figures with their dimensions.

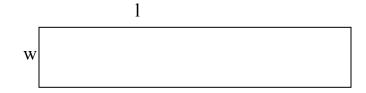
Square

S

s = side

All the sides of a square are the same, so only one has to be labeled.

Rectangle

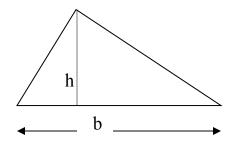


1 = length

w = width

For rectangles, usually the length is the longer side and the width the shorter side.

Triangle



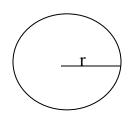
h = height

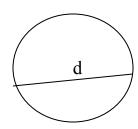
b = base

For triangles the height goes from the base straight up to the highest point. The base is the full length across the bottom. The arrows help make it clear which length you are referring to.

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Circle



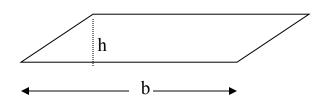


r = radius

d = diameter

If you are given the diameter, divide it in half to get the radius.

Parallelogram

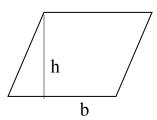


h = height

b = base

The height goes straight from the base to the top.

Rhombus



h = height

b = base

the labeling for a rhombus is the same as for a parallelogram.

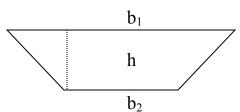
Trapezoid

h = height

 b_1 = base one

 b_2 = base two

Either base can be called base one or base two.



Label the following with their dimensions.

1. square	
2. rectangle	
3. parallelogram	
4. circle	
5. triangle	
6. rhombus	
7. trapezoid	

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