7.

<u>one-dimensional</u> (**wuhn** duh-**men**-shuhn-uhl) — a straight line is one-dimensional. Also called 1-D. (The line that I drew was one-dimensional because it was straight.

<u>two-dimensional</u> – a flat shape like a circle, or a picture of a tree, is two-dimensional. Also called 2-D. (I drew a picture of a sun and it was two-dimensional.)

<u>three-dimensional</u> – a solid shape like a ball, or an actual tree is three-dimensional. Also called 3-D.

-				
dimensional				
Write each definition in your own words.				
one-dimensional				
two-dimensional				
three-dimensional				
Label each as 1-D, 2-D, or 3-D.				
1.	a triangle drawn on paper.			
2.	a line			
3.	a shoe box			
4.	a blank line			
5.	a square drawn on paper			
6.	a house			

a picture of a house

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

Write two sentences using each word.

one-dimensional

1.

2.

two-dimensional

1.

2.

three-dimensional

1.

2.

Matching.

one-dimensional a solid shape like a ball

two-dimensional a flat shape like a circle

three-dimensional a line

<u>plane</u> (**plane**) – a flat surface that goes on and on in all directions. Planes are two dimensional. (This piece of paper is part of a plane.)

<u>figure</u> (**fig**-yur) – a shape or an outline. (I drew a figure called a triangle.)

<u>plane figure</u> (**plane fig**-yur) – a figure that can be drawn on a plane, like a circle or the letter M. It is a two-dimensional figure. (He drew several plane figures on his paper.)

<u>open figure</u> (**oh**-puhn **fig**-yur) - a plane figure that doesn't connect back to where you started drawing. (The letter C is an open figure.)

<u>closed figure</u> (**klohzd fig-**yur) - a plane figure that when drawn, starts and stops at the same point. (The letter O is a closed figure.)

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

plane	
figure	
open	
closed	_
Write each definition plane	in your own words
figure	
plane figure	
open figure	
closed figure	

Write two sentences using each word.

plane

1.

2.

figure

1.

2.

plane figure

Ι.

2.

open figure

1.

2.

closed figure

1.

2.

Matching.

plane a plane figure that doesn't connect back to

where you started drawing.

figure a flat surface that goes on and on in all

directions

plane figure a shape or an outline

open figure a plane figure that when drawn, starts and

stops at the same point.

closed figure a figure that can be drawn on a plane, like a

circle

Look around your house and find 5 flat surfaces that represent parts of planes. Write what you found. (example: the kitchen table top.)

- 1.
- 2.
- 3.
- 4.
- 5.

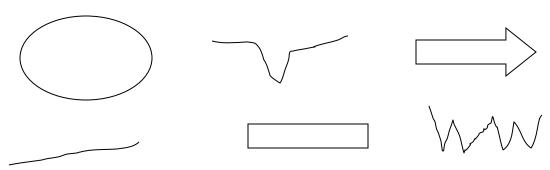
Draw three plane figures.

1.

2.

3.

Circle the open figures and put a square around the closed figures.



Draw three open figures.

1.

2.

3.

Draw three closed figures.

1.

2.

3.

<u>poly-</u> - this part of a word, means many.

<u>-gon</u> - this part of a word means angles.

<u>polygon</u> (**pol**-ee-gon) - a closed plane figure made of straight line segments. It has many (poly-) angles (-gon). (The rectangle I drew on the paper was a polygon with four angles.)

<u>regular polygon</u> (**reg**-yuh-lur **pol**-ee-gon) - a polygon with a regular shape, meaning all the sides are the same length and all the angles are the same size. (A square I drew is a regular polygon because all the sides are 2 inches, and all the angles were 90 degrees.)

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

polygon	
regular	
Write each definition in	your own words
polygon	
regular polygon	

Write two sentences using each word.

polygon

1.

2.

regular polygon

1.

2.

Matching.

poly- this part of a word means angles.

-gon this part of a word, means many

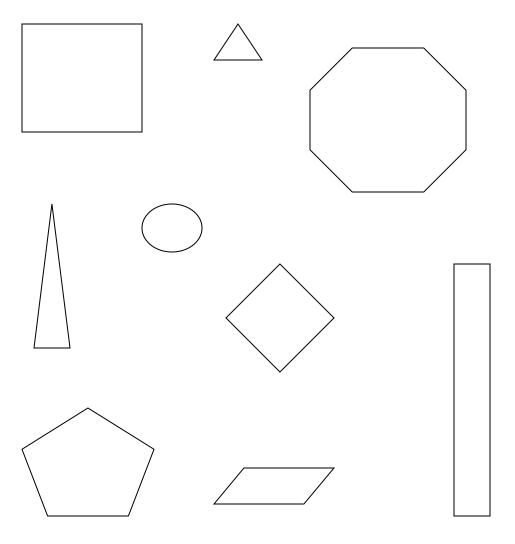
polygon a polygon with all the sides the same length and

all the angles the same size

regular polygon a closed plane figure made of straight line

segments

Circle the regular polygons.



Polygons have the same number of sides as angles, and are usually referred to by the number of sides.

triangle (trye-ang-guhl) – a polygon with 3 sides.

quadrilateral (kwahd-ruh-lat-ur-uhl) – a polygon with 4 sides.

pentagon (pen-tuh-gon) – a polygon with 5 sides.

hexagon (hek-suh-gon) – a polygon with 6 sides.

heptagon (hep-tuh-gon) – a polygon with 7 sides.

octagon (ok-tuh-gon) – a polygon with 8 sides.

nonagon (non-uh-gon) – a polygon with 9 sides.

decagon (**dek**-uh-gon) – a polygon with 10 sides.

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

triangle	
quadrilateral	
pentagon	_
hexagon	
heptagon	_
octagon	
nonagon	
decagon	

Draw one example of each.

triangle

quadrilateral

heptagon

decagon

octagon

pentagon	
hexagon	
heptagon	
octagon	
nonagon	
decagon	
Matching.	
triangle	a polygon with 3 sides
hexagon	a polygon with 4 sides.
quadrilateral	a polygon with 5 angles.
nonagon	a polygon with 6 angles.
pentagon	a polygon with 7 sides.

Page 57 Tutor's Pal Book 6

a polygon with 8 angles.

a polygon with 10 sides.

a polygon with 9 sides and 9 angles.

Name the following.

2. _____

5. _____

9. _____

10._____

11. _____