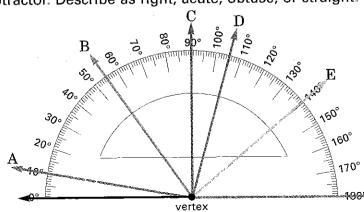
metry begins	with lines and how	line	es relate to each other.		
	vertical	1.	lines that cross each other	6.	Ţ
	parallel	2,	lines straight up and down	7	_1_
		3.	lines the same distance apart along their entire length	8.	**
	intersecting	4	lines that form 90° angles where they meet	9.	A. A.
	perpendicular	5.	lines parallel to the horizon	10.	X
Match the n	ame to the definitio	n a	nd to the drawing.		
	line	1.	has one end point	6.	ş ş
<u> </u>	line segment	2	marks the beginning and ending	7.	
	end point	3.	distance between two rays with a common end point	8	←
	ray	4.	has no beginning and no end	9.	§
	angle	5.	has a beginning and end	10.	
Match the n	ame of the angle to	the	e definition and to the drawing.		
	right	1.	equal to 180°	5.	The same of the sa
	acute	2.	greater than 90°, but	6.	,
	Match the name of	Match the name of the line to the vertical parallel horizontal intersecting perpendicular Match the name to the definition line line segment end point ray angle Match the name of the angle to right	Match the name of the line to the december of the line to the december of the line to the december of the line of the line of the line of the definition and line of the line	2. lines straight up and down 3. lines the same distance apart along their entire length 4. lines that form 90° angles where they meet 5. lines parallel to the horizon Match the name to the definition and to the drawing. line 1. has one end point 2. marks the beginning and ending 3. distance between two rays with a common end point 4. has no beginning and no end 4. has no beginning and end Match the name of the angle to the definition and to the drawing. 1. has one end point 2. marks the beginning and ending 3. distance between two rays with a common end point 4. has no beginning and no end Match the name of the angle to the definition and to the drawing. 1. equal to 180° 2. greater than 90°, but	Match the name of the line to the definition and to the drawing.

a right		1. equal to 180°	5.
		2. greater than 90°, but	6.

less than 180° obtuse 3. less than 90° straight 4. equal to 90°

Identify each measurement on the protractor. Describe as right, acute, obtuse, or straight.



(1.)	Name two of the plane shapes that are not polygons.	
------	---	--

A regular polygon has sides of equal length and angles of equal measure. Other polygons are irregular polygons.

(2.) Match irregular polygons to their	name
--	------







\rightarrow	

1 triangle

2. pentagon

3. hexagon

4. octagon

Vertex is the point where the rays of an angle meet. Vertices is the plural of vertex.



(3.) How many vertices in

\wedge	

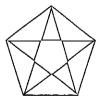




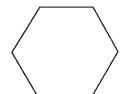


Diagonals are lines that join vertices.

(4.) The diagonals have been drawn between all of the vertices of the pentagon. Look carefully on the inside. Can you find a shape similar to the large shape? Outline it with your pencil. Name the shape.



(5.) Draw diagonals in each shape. Outline the small shape similar to the large shape. Name the shape.







Workshe	et	22
---------	----	----

Factors are all of the numbers that can be multiplied together for a certain produc	t.
Factors are always written in number order.	

Prime numbers are numbers that have only two factors, one and themselves. Composite numbers are numbers with three or more factors.

1.)	Write the factors for each number in number order.	Circle (P) for prime or (C) for
	composite.	

The multiples of 6 are Multiples are the answers to multiplication facts. Multiples are written in patterns. Multiply by 1, 2, 3, ... 6, 12, 18, 24, 36, ... Multiples can be written to any size. 54, 60, 66, 72, 78, ...

Multiples can be written for any number (17).

17, 34, 51, 68, 85, ...

×	×	×	×	×	×
18	18	18	18	18	18

Factors are all of the numbers than can be multiplied together for a certain product. Factors are always written in number order-

(4.)Write the factors of 18.

Prime numbers are numbers that have only two factors, one and themselves. Composite numbers are numbers with three or more factors.

(5.) Write the factors for each number. Circle (P) for prime or (C) for composite.

Worksheet 23 There is another operation symbol for multiplication. A small number (2) is written above 3^2 and to the right of a number (3). The symbol tells us to use 3 as a factor 2 times. We can write the prime factors of 18 as ... $2 \times 3^2 = 18$ The name of this type of operation symbol is exponential notation. The number (3) is the base factor. The small number (2) is the exponent. is read "three to the second power or three squared." $3 \times 3 = 9$ is read "three to the third power or three cubed." $3 \times 3 \times 3 = 27$ is read "three to the fourth power." $3 \times 3 \times 3 \times 3 = 81$ is read "three to the fifth power." $3 \times 3 \times 3 \times 3 \times 3 = 243$ The pattern may continue to any power. We say the number (3) is increasing exponentially. The base factor is 7. The exponent is 2. 7×7 Write the number in exponential notation. The product of 7 squared is 49. 49 (1.) Fill in the blanks for each set of prime factors. Base Exponent Exponential Product Factor Notation a. $2 \times 2 \times 2 \times 2$ b. $5 \times 5 \times 5$ c. $3 \times 3 \times 3 \times 3$ d. $7 \times 7 \times 7$ e. $2 \times 2 \times 2 \times 2 \times 2$ Exponential notation is a way of expressing multiplication. 6 is the base number. 3 is the exponent. The operation is multiplication.

6 is multiplied by itself 3 times. 6 is called the repeated factor.

 $6^3 = 6 \times 6 \times 6 = 216$

Numbers can be expressed in exponential notation.

4 is the base number (factor). 5 is the exponent. The operation is multiplication. 4 is multiplied by itself 5 times.

4 is called a repeated factor.

 $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1.024$

(3.)Write the value of the number.