Name: Key Vocabulary:

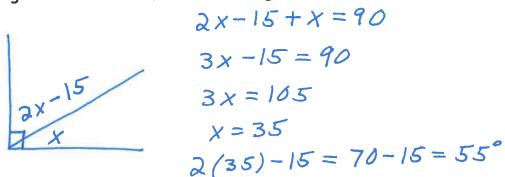
	Definition	Diagram	Notation (name)
Point	A location in		Point P
O-Dimensional	space. It has	₽ P	
	no size or	r	
	thickness		
Line	A straight path		AB or BA
1-Dimensional	that has no	4000	710 01
	thickness and	A B	
	extends forever.		
Line Segment	The part of a		CD or DC
1-D	line consisting of		CD OF DC
1 1	two endpoints and	C	
	all the points between		
Ray	A one directional	c 1	->
1-D	line. It starts	5/1	RS
1. 0	at an endpoint and		
	extends forever.	Rendpoint	
Opposite Rays	Two Tave sharing	endpoint	\overrightarrow{XY} and \overrightarrow{XZ}
1-D	a common endpoint and forming a	(A / Will A =
10	and forming a	ZXY	
	line.		
Plane	A flat surface	/ B . /	Plane ABC
2-Dimension	that has no,	/A . L/	, ,,,,,,,
	thickness and		
	extends forever.		
Collinear	Points that		Points A, B, C
	lie on the		are collinear.
	same line.	ABC	
Noncollinear	Points that do	B_{\bullet}	Points A, B, C
	not lie on the		are honcollinear.
	same line.		Colo Merica III Many
		A	

Coplanar	Points that lie on the same plane	E • • F/	Points D, E, F, 6 are coplanar.
Complementary Angles	Two angles whose sum is 90°	2	$m \ge 1 + m \ge 2 = 90$ The measure of
Supplementary Angles	Two angles whose sum is 180°	- 1/2 >	m21 +m22 = 180
Vertical Angles	The opposite angles formed by two intersections lines.	3 2 4	$m \leq 1 = m \leq 2$ $m \leq 3 = m \leq 4$

Vertical Angles are equal in measure.

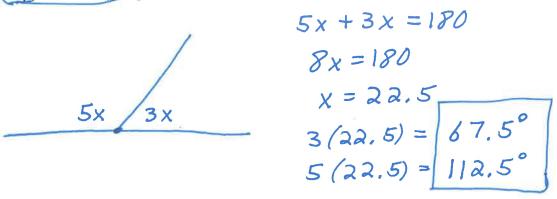
Examples:

1) Two angles are complementary. The second angle is 15 degrees less than twice the first angle. Find the measures of both angles.



35°, 55°

2) Two supplementary angles are in a ratio of 3:5. Find the measures of both angles.



3)a) $\angle ABD$ and $\angle EBC$ are what kind of angles?



b) Find $m \angle ABD$

$$5x-5 = 3x + 15$$

$$2x = 20$$

$$x = 10$$

$$m < ABD = 5(10) - 5 = 45^{\circ}$$

c) Find $m \angle ABE$

 $45^{\circ} = 5x - 5$ B 3x + 15

4) Draw and label three collinear points A, B, and C.



5) Draw and label three noncollinear points D, E, and F.



6) Draw two opposite rays \overrightarrow{EF} and \overrightarrow{EG} .

