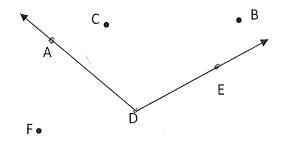
Geom	netry Not	es: 1-4; <i>Angle</i>	<u>Measure</u>				
Name	heez		Date_	9/22	EEP		
		1 degree = $\frac{1}{360}$ Circle has Semi Circle ha	360° (G)) Full sp	5)V	and	arran
Rav: (has a 180° angu of a line. Ha	17 17 1	a i an	d avtands	in the cond	1 ,
	one dice		some ena pos	A	a exterius	D	3
1.0	DICE (XC)	CCON					
			_ \	F		·	
		ht could be nam	(in a	r	G	•	
more c	commonly	we use the symb	ool: <u>E</u>		,	E	<u> </u>
					Line: 4	A	B) AB
			-	\ Seq	gment:	0	r co
4	Q.	Ä	P	Ray	Line: F		> EF
			\rightarrow	· ./_	E	F	
		rectly above, <u>A</u> s must be <u>Cala</u>					ays.
, ,	,			9	., 0	rece savi	(e) (
Angle:	Formed by	two non c	olthear r	ags_w	ith commo	on enap	out.
Side BF	A A	Label the po	arts of the ang	le on the I	left. This a	ngle could l	be named:
X			L B				
15			Z ABC Z CBF				
side BE	<i>}</i>	C	15	•		×	7
-					D	G	٠.
There a	re Four	angles in the diag	gram to the righ	nt.		E	
		ther of them $\angle E$	_		r / ` `		
		фициал		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		H	



Points A, D, and E are on the angle.

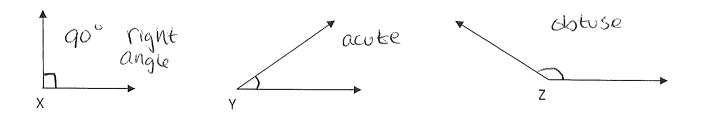
Which points(s) are in the interior of $\angle D$? Fints Canab

Which points(s) are on the exterior of $\angle D$? For F

(***See Page 30 example 1 for more practice!)



A geometric tool used to measure angles is a <u>Pro fractor</u>. Measure the following angles: Remember to use the scale that begins with a zero at the angle's terminal side!!!



An angle measuring greater than 90° is a(n) obtase angle, as in \angle \angle above.

An angle measuring less than 90° is a(n) angle angle, as in \angle \angle above.

An angle measuring exactly 00° is a(n) angle angle, as in \angle \angle angle angle.

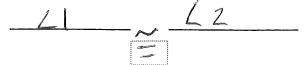
An angle measuring exactly 90° is a(n) $\sqrt{}$ angle, as in \angle above. Mark this angle with the symbol that means the angle measure = 90° (that the angle is a right angle).

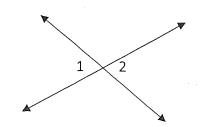
Congruent

's have the same Masuce.

Write a congruency statement for the numbered angles,

and mark them congruent on the diagram.





Example:

1. Find $m \angle CBD$.

$$\angle ABC \stackrel{\sim}{=} CBD \angle CB0 = 44x - 2$$

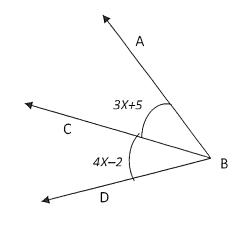
$$3x + 5 = 4x - 2 \angle CB0 = 4(7) - 2$$

$$-3x - 3x - 2 \angle CB0 = 28 - 2$$

$$5 = x - 2 \angle CB0 = 26^{\circ}$$

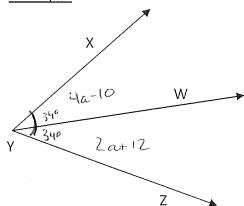
$$+2 + 2 + 2$$

$$7 = x$$



Angle Bisector: A <u>ray</u> that divides an angle into <u>two</u> <u>Congruent</u> angles.

Example:



If \overrightarrow{YW} bisects \angle XYZ, m \angle XYW= 4a–10, m \angle WYZ= 2a+12, then find "a" and m \angle XYZ.

$$4a-10=2a+12$$
 $4a-10$
 $2a-10=12$
 $4(11)-10$
 $44-10$
 $34+34$
 $a=1$
 $a=1$
 $a=1$