Name:		· 	Class:		Date:		
P10 - R	Reviev	v Package 5					
Multip Identify		oice hoice that best compl	etes the statement or	answer	s the question.		
	1. A	An angle of 134° is a(1	1) 8	angle.			
		a. acute o. right	i i	c. d.	reflex obtuse		
	2. Adding 90° to an acute angle will always produce a(n) angle.						
		a. acute o. right		c. d.	reflex obtuse		
	3. A bearing of 49° east of north is closest to which of the following standard bearings?						
		a. E o. NE		c. d.	NNE ENE		
	4. <i>A</i>	A bearing of 34° south	of east is closest to	which o	of the following standard bearings?		
		a. S b. SE		c. d.	SSE ESE		
	5. A	An unknown angle is bisected. Each resulting angle measures 39°. What is the unknown angle?					
·		a. 68° b. 39°		c. d.	78° 73°		
	6. An unknown angle is bisected. Each resulting angle measures 76°. What is the unknown angle						
	_	a. 142° o. 147°		c. d.	76° 152°		
	7. 7	Two lines are perpend	icular when:				
		The angle between		c. d.	The angle between them is 45°. The angle between them is 90°.		
	8. I	8. If the complement of a 40° angle is bisected, what will each resulting angle measure?					
		a. 12.5° b. 25.0°		c. d.	50.0° 37.0°		

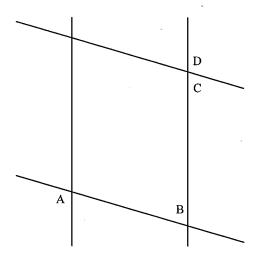
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9. If the complement of an angle of 25° is bisected, what will each resulting angle measure?

a. 65.0°b. 16.3°

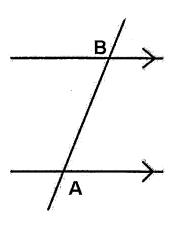
Name: _				ID: A				
10	). If 1	the supplement of a 22°	angle is bisected, what v	will each resulting angle measure?				
	a.	158.0°	c.	91.0°				
	b.	34.0°	d.	79.0°				
11.	. <b>W</b> I	hich of the following st	atements is true?					
	a.	If an obtuse angle is	bisected, the bisecting lin	ne will be perpendicular to it.				
	b.	If a straight angle is 1	bisected, the bisecting lin	e will be perpendicular to it.				
	c.	If a reflex angle is bi	sected, the bisecting line	will be perpendicular to it.				
	d.	If an acute angle is b	isected, the bisecting line	will be perpendicular to it.				
12	2. If	you bisect a reflex angl	e, the two resulting angle	es will be obtuse.				
	a.	Always.	c.	Never. They will always be acute.				
	b.	Sometimes.	d.	Never. You cannot bisect a reflex angle.				
13	3. A	A transversal intersects two parallel lines. If one angle is 64°, what will the corresponding angle be?						
	a.	68°	c.	116°				
	b.	64°	d.	26°				
14	l. A	A transversal intersects two parallel lines. If one angle is 93°, what will the corresponding angle be?						
	a.	93°	c.	86°				
	b.	87°	d.	47°				
15.	5. A1	A transversal intersects two parallel lines. If one angle is 153°, what will the alternate interior angle be?						
	a.	146°	c.	77°				
	b.	153°	d.	27°				
16.	<b>5. A</b> 1	A transversal intersects two parallel lines. If one angle is 49°, what will the alternate interior angle be?						
	a.	131°	c.	25°				
	b.	49°	d.	42°				
17		Two interior angles lie on the same side of a transversal that intersects two parallel lines. If one angle is 60°, what will the other angle be?						
	a.	30°	c.	120°				
	b.	30°	d.	67°				
18		vo interior angles lie or nat will the other angle		versal that intersects two parallel lines. If one angle is 143				
	_	1500		720				
	a. k	150° 37°	C.	72°				

19. In the diagram below, opposing lines are parallel. If  $\angle A$  is 108°, what is the measure of  $\angle B$ ?



- a. 108°
- b. 54°

- c. 18°
- d. 72°
- 20. If  $\angle A$  is 160°, what is the measure of  $\angle B$ ?



- a. 20°
- b. 160°

- c. 106°
- d. 70°

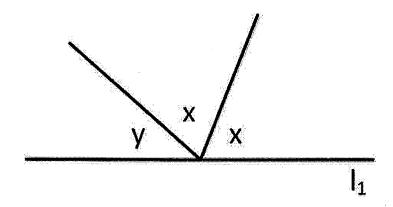
## **Short Answer**

- 1. The complement of an angle is 22°. What type of angle is it and what is its size?
- 2. The angle between two perpendicular lines is \_\_\_\_\_.
- 3. A transversal intersects two parallel lines. What will be the measure of an angle corresponding to an angle of 44°?

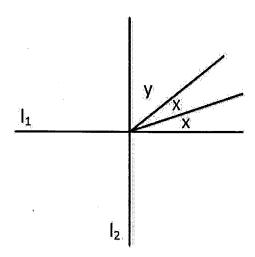
- 4. A transversal intersects two parallel lines. What will be the measure of an angle corresponding to an angle of 108°?
- 5. Two interior angles lie on the same side of a transversal that intersects two parallel lines. If one angle is 109°, what will the other angle be? Explain your reasoning.

## Problem

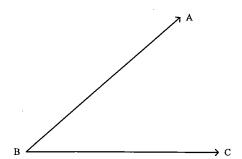
1. In the figure below, if angle y is 41°, what must the value of x be to make  $l_1$  a straight angle?



2. In the figure below, if angle y is 53°, what must the value of x be to make  $l_1$  and  $l_2$  perpendicular?

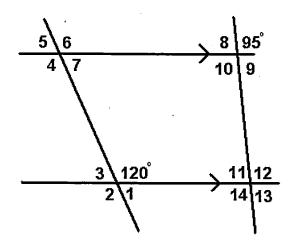


3. Bisect ∠ABC using a straight edge and compass.



4. State at least one requirement for two lines intersected by a transversal to be parallel.

5. Identify the measures of each of the angles indicated.



Solving Angle Measures					
Angle Measure	Reason				
∠1 =					
∠2 =					
∠3 =					
∠4 =					
∠5 =					
∠6 =					
∠7 =					
∠8 =					
∠9 =					
∠10 =					
∠11 =					
∠12 =					
∠13 =	·				
∠14 =					