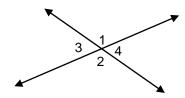
Geometry		
Chapter 2	Practice	Test

Name	•
Date _	

Deter	mine whether each conjecture is true or false. Provide a counterexan cture.	npl	e for any	false
1)	Given: <i>m∠A</i> = <i>m∠B</i>	1)	TRUE	FALSE
	Conjecture: $\angle A$ and $\angle B$ are vertical angles.			
	Counterexample (if FALSE):			
2)	Given: $AM = MB$	2)	TRUE	FALSE
	Conjecture: M is the midpoint of \overline{AB}			
	Counterexample (if FALSE):			
Lleo ti	he following conditional statement for questions 3 – 5.			
Use ii	·			
	Right angles are congruent.			
3)	Write the statement in If-then form:			
4)	Write the hypothesis and conclusion.			
	Hypothesis:			
	Conclusion:			
5 \	Marketter and the second of th			
5)	Write the converse of question 3:			
C)	Write the inverse of superior O			
6)	Write the inverse of question 3:			
7)	Write the contrarection 2:			
7)	Write the contrapositive of question 3:			
0/	In the converse of question 2 TDLIE2 if not places provide a second		vomple:	
8)	Is the converse of question 3 TRUE? If not, please provide a counte	ех	каттріе:	



- 9) If $m \angle 1 = 6x 5$ and $m \angle 2 = 5x + 23$, find the value of x.
- 9) _____

10) Based on #9, find the $m \angle 1$ and $m \angle 2$.

- 10) *m*∠1 = _____ *m*∠2 = _____
- 11) If $m \angle 1 = 4y 7$ and $m \angle 3 = 2y + 7$, find the value of y.
- 11) _____

12) Based on #11, find the $m \angle 3$ and $m \angle 4$.

- 12) *m*∠3 =_____ *m*∠4 =_____
- 13) If A is the midpoint of XY, XA = 5y 10 and AY = 2y + 5, find XY. (HINT: Draw a diagram)
- 13) _____

- 14) Given that \overrightarrow{SH} bisects $\angle KSL$, $m\angle KSH = 4x 20$, and $m\angle LSH = 2x$. Find the measure of $\angle KSH$. (HINT: Draw a diagram)
- 14) _____

Write whether each statement is TRUE or FALSE.

15) Right angles are congruent.

- 15) T
- 16) If two angles are adjacent angles, then they are complementary.
- 16) T F

F

17) Two angles that are supplementary are congruent.

17) T F

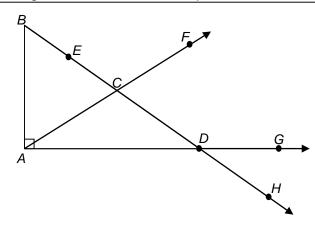
Fill in the blank with the correct word(s).

- 18) A _____ is an educated guess based on known information.
- 18) _____

19) _____

- 19) A pair of angles that have a common side and common vertex, but do not have any common interior points are called _____?__
- 20) The statement immediately following the word "then" in an If-then statement is called the _____?___.
- 20) _____

Use the diagram below to answer questions 21 - 25.



21) Name a pair of complementary angles.

21) _____

22) Name a pair of vertical angles.

22) _____

23) Name a linear pair.

23) _____

24) Name the vertex of $\angle DCA$.

24) _____

25) Name the sides of $\angle GDH$.

25) _____

Consider the following statement for the problems below:

If someone drinks and drives, then s/he is at risk of causing an accident.

26)	Create (2) additional statements that together with the statement above, exemplify the Law of Detachment.
	(1)
	(2)
27)	Create (2) additional statements that together with the statement above, exemplify the Law of Syllogism.
	(1)
	(2)