

# Geometry Review Quiz 1

Name \_\_\_\_\_

- \_\_\_\_\_1. Find the value of n:  $\frac{6}{n-2} = \frac{5}{n-3}$  [7-1]  
A. 6                      B. 7                      C. 8                      D. 10
- \_\_\_\_\_2. Line a and line b are perpendicular to each other. If line a has a slope of 4, what is the slope of line b? [4-4]  
A. 4                      B. -4                      C.  $\frac{1}{4}$                       D.  $-\frac{1}{4}$
- \_\_\_\_\_3. What is the contrapositive of the following statement? [2-1]  
"If Joe goes fishing, then he needs bait."  
A. If he needs bait, then Joe goes fishing.  
B. If Joe does not go fishing, then he does not need bait.  
C. If he does not need bait, then Joe does not go fishing.  
D. If Joe goes fishing, then he does not need bait.
- \_\_\_\_\_4. In my class, there are 18 kids. Everyone either plays golf or tennis. [2-4]  
If 12 play golf and 7 play both sports, how many total people play tennis?
- \_\_\_\_\_5. Which of the following set of lengths can represent a right triangle? [1-3]  
A. 4, 5, 6                      B. 5, 12, 13                      C. 8, 10, 17                      D. 20, 21, 29
- \_\_\_\_\_6. What do all of the angles inside a pentagon add up to? [6-1]  
A.  $540^\circ$                       B.  $720^\circ$                       C.  $1080^\circ$                       D.  $1440^\circ$
- \_\_\_\_\_7. Let p represent "two angles are vertical angles." [2-2]  
Let q represent "the angles are congruent." What represents the statement  
"If two angles are congruent, then the two angles are vertical angles."  
A.  $q \rightarrow \sim p$                       B.  $\sim q \rightarrow p$                       C.  $p \rightarrow q$                       D.  $q \rightarrow p$
- \_\_\_\_\_8. Which set of numbers could be the sides of a triangle? [5-1]  
A. 6, 14, 8                      B. 9, 11, 21                      C. 8.5, 17, 10.6                      D. 14, 4.7, 4.7
- \_\_\_\_\_9. If A = (2, 8) and B = (4, 9), what is AB? [1-3]  
A.  $\sqrt{5}$                       B.  $\sqrt{6}$                       C.  $\sqrt{10}$                       D.  $\sqrt{14}$
- \_\_\_\_\_10. In  $\triangle ABC$   $\angle A = 8x + 12$ ,  $\angle B = 15x - 40$ , and  $\angle C = 10x + 10$ . [5-2]  
Determine the longest side of  $\triangle ABC$ .  
A.  $\overline{AB}$                       B.  $\overline{AC}$                       C.  $\overline{CB}$                       D.  $\angle A$