

# Honors Geometry Review Quiz 19

Name \_\_\_\_\_

Put all answers to the multiple choice questions below. Use Capital Letters, please.

- \_\_\_\_\_1. If C is between X and Y with  $CX = 8n - 4$  and  $CY = 2n + 10$ , what is XY?  
A.  $6n - 6$                       B.  $6n - 14$                       C.  $10n + 6$                       D.  $10n - 6$
- \_\_\_\_\_2. A is at  $(-1, 2)$  and B is at  $(3, 8)$ . What are the coordinates of the midpoint of  $\overline{AB}$ ?  
A.  $(1, 4)$                       B.  $(1, 5)$                       C.  $(2, 5)$                       D.  $(2, 4)$
- \_\_\_\_\_3. If you walk 35 miles due North and then 48 miles due West, rounded to the nearest mile how far are you from your starting point?  
A. 13 miles                      B. 33 miles                      C. 59 miles                      D. 61 miles
- \_\_\_\_\_4. If  $\angle A$  and  $\angle B$  are vertical angles with  $\angle A = n + 60$  and  $\angle B = 2n + 10$ , what is the measurement of  $\angle A$ ?  
A. 110                      B. 80                      C. 20                      D. None of the above
- \_\_\_\_\_5. The inverse of “if you are old, you have a big head” is “if you don’t have a big head, then you are not old.”  
A. True                      B. False
- \_\_\_\_\_6. If the measures of the angles on the inside of a pentagon are  $2n + 40$ ,  $3n + 40$ ,  $n - 30$ ,  $6n + 30$ , and  $4n + 60$ , what is  $n$ ?  
A. 25                      B. 28                      C. 30                      D. 32
- \_\_\_\_\_7. “If you like dogs, you like cats” is represented by  $p \rightarrow q$ . What would be the symbolic representation of “if you don’t like cats, you like dogs”?  
A.  $\sim p \rightarrow q$                       B.  $p \rightarrow \sim q$                       C.  $\sim q \rightarrow p$                       D.  $\sim q \rightarrow \sim p$
- \_\_\_\_\_8. Let  $p$  represent  $\sqrt{11} = z$ , and let  $q$  represent  $z$  is a rational number. What is a symbolic representation of the statement: “If  $\sqrt{11} = z$ , then  $z$  is not a rational number”?  
A.  $q \rightarrow p$                       B.  $p \rightarrow \sim q$                       C.  $\sim q \rightarrow p$                       D.  $q \rightarrow \sim p$
- \_\_\_\_\_9. What is the value of  $n$ :  $\frac{4}{n+2} = \frac{9}{n+7}$   
A.  $n = 1$                       B.  $n = 2$                       C.  $n = -2$                       D.  $n = 4$
- \_\_\_\_\_10. If lines are parallel, then alternate interior angles are equal.  
A. True                      B. False