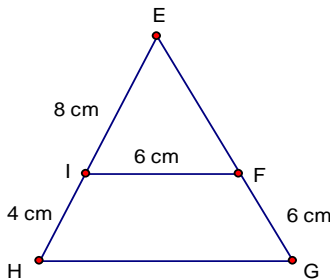# Honors Geometry Review Quiz 1-7 D

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 ∠A and ∠B are vertical angles with ∠A = n + 60
   and ∠B = 2n + 10, what is the measurement of ∠A ?
   A. 110   B. 80   C. 20   D. None of the above

_____5.   If ΔEIF ~ ΔEHG in the triangle below, what is HG?
   A. 5   B. 6   C. 9   D. 12

_____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 → q. What would be
   the symbolic representation of "if you don't like cats, you like dogs"?
   A. ~p → q   B. p → ~q   C. ~q → p   D. ~q → ~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 → p   B. p → ~q   C. ~q → p   D. q → ~p

_____9.   What is the value of n: $\dfrac{4}{n+2} = \dfrac{9}{n+7}$
   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