

Geometry Review Quiz 1-6 C

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

- ____ 1. If two sides of a triangle are 6 cm and 8 cm, what must be true about the third side?
A. $2 \leq m < 14$ B. $2 < m < 14$ C. $2 > m > 14$ D. $2 \leq m \leq 14$
- ____ 2. In $\triangle ABC$ $\angle A = 2x$, $\angle B = x + 60$, and $\angle C = 2x + 20$. Which side is the longest?
A. \overline{AB} B. \overline{BC} C. \overline{AC} D. $\angle A$
- ____ 3. In $\triangle ABC$, $AB = 13$ cm, $BC = 12$ cm, and $AC = 16$ cm. What angle is smallest?
A. $\angle A$ B. $\angle B$ C. $\angle C$ D. None of the above
- ____ 4. Which of the following is not always true about a parallelogram?
A. the diagonals bisect each other B. opposite sides are equal in length
C. opposite angles are equal D. diagonals are perpendicular
- ____ 5. 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
- ____ 6. "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. $\sim q \rightarrow \sim p$
- ____ 7. 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. $q \rightarrow \sim p$
- ____ 8. If $\triangle ABC$ is an isosceles triangle with $AB = BC$, which statement must be true?
A. $\angle C = \angle B$ B. $\angle A = \angle B$ C. $\angle A = \angle C$ D. $AC = BC$
- ____ 9. What is the distance from (1, 5) to (7, 6)?
A. $\sqrt{37}$ B. $\sqrt{23}$ C. $\sqrt{24}$ D. None of the above
- ____ 10. If the measure of each exterior angle of a regular polygon is 18° , how many sides does the polygon have?
A. 18 B. 20 C. 22 D. 24