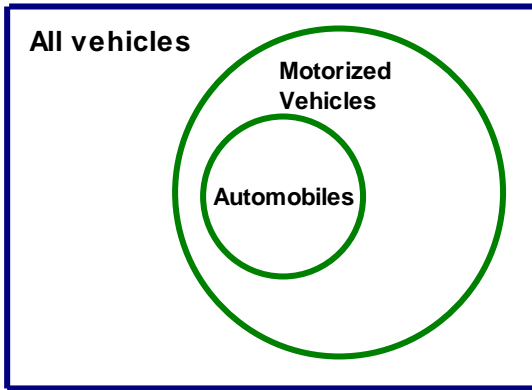# Honors Geometry Review Quiz 4

Name _____

**Put all answers in the blank to the left of the question.**

_____1.  What is the midpoint of a line that has endpoints at (2, 3) and (8, 11)?
A.  (5, 7)  B.  (4, 14)  C.  (8, 14)  D. (4, 7)

_____2.  A line segment has an endpoint at (3, 2).  If the midpoint of the line segment is (6, 1), what are the coordinates of the point at the other end of the line segment?
A.  (4.5, 1.5)  B.  (4.5, 2)  C.  (9, 0)  D. (9, 3)

_____3.  Let $p$ represent $x^2 = 21$ and let $q$ represent x is not a whole number.
Which is a representation of "If x is a whole number, then $x^2 \neq 21$."
A.  $p \rightarrow \sim q$  B.  $\sim q \rightarrow \sim p$  C.  $\sim p \rightarrow \sim q$  D.  $\sim p \rightarrow q$

_____4.  What is the converse of the following statement?
"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.

_____5.  According to Venn diagram 1 on the back of this page, which is true?
A.  All automobiles are motorized vehicles  C.  All motorized vehicles are automobiles
B.  Some automobiles are not motorized vehicles.  D.  No automobiles are motorized vehicles.

_____6.  If the conditional statement "If you have a laptop, then you have a computer" is represented by $p \rightarrow q$, what is the symbolic representation of "If you have a computer, then you do not have a laptop"?
A.  $q \rightarrow \sim p$  B.  $\sim q \rightarrow p$  C.  $p \rightarrow \sim q$  D.  $\sim q \rightarrow \sim p$

_____7.  If AB + NP = BC + NP, then AB = BC demonstrates what property?
A.  Subtraction  B.  Addition  C.  Substitution  D. Symmetric

_____8.  According to Venn diagram 2 on the back of this page, what is true?
A.  All isosceles triangles are also equilateral triangles.
B.  All equilateral triangles are also isosceles triangles.
C.  Some equilateral triangles are also isosceles triangles.
D.  No isosceles triangles are equilateral triangles.

_____9.  Which could be the side lengths of a right triangle?
A.  12, 15, 25  B.  11, 60, 61  C.  1, 2, 3  D.  27, 31, 37

_____10.  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

**Venn diagram 1**

All vehicles

Motorized
Vehicles

Automobiles

**Venn diagram 2**

Isosceles
Triangles

Equilateral
Triangles