Regents Exam Questions G.CO.C.9: Compound Statements 1 www.jmap.org

G.CO.C.9: Compound Statements 1

- 1 The statement "*x* is a multiple of 3, and *x* is an even integer" is true when *x* is equal to
 - 1) 9
 - 2) 8
 - 3) 3
 - 4) 6
- 2 The statement "x > 5 or x < 3" is *false* when x is equal to
 - 1) 1
 - 2) 2
 - 3) 7
 - 4) 4
- 3 Given: Two is an even integer or three is an even integer.

Determine the truth value of this disjunction. Justify your answer.

- 4 Which statement has the same truth value as the statement "If a quadrilateral is a square, then it is a rectangle"?
 - 1) If a quadrilateral is a rectangle, then it is a square.
 - 2) If a quadrilateral is a rectangle, then it is not a square.
 - 3) If a quadrilateral is not a square, then it is not a rectangle.
 - 4) If a quadrilateral is not a rectangle, then it is not a square.

- 5 Which compound statement is true?
 - 1) A triangle has three sides and a quadrilateral has five sides.
 - 2) A triangle has three sides if and only if a quadrilateral has five sides.
 - 3) If a triangle has three sides, then a quadrilateral has five sides.
 - 4) A triangle has three sides or a quadrilateral has five sides.
- 6 Which compound statement is true?
 - 1) A square has four sides or a hexagon has eight sides.
 - A square has four sides and a hexagon has eight sides.
 - 3) If a square has four sides, then a hexagon has eight sides.
 - 4) A square has four sides if and only if a hexagon has eight sides.

Name: ____

G.CO.C.9: Compound Statements 1 Answer Section

- 1 ANS: 4 REF: 081101ge
- 2 ANS: 4 REF: 081505ge
- 3 ANS:

True. The first statement is true and the second statement is false. In a disjunction, if either statement is true, the disjunction is true.

REF: 060933ge

4	ANS:	4	REF:	061423ge
5	ANS:	4	REF:	011118ge

6 ANS: 1 REF: 081421ge