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

Name: $\qquad$

## 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.
2) 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.

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## 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

