

G.G.25: Compound Statements 3: Know and apply the conditions under which a compound statement (conjunction, disjunction, conditional, biconditional) is true

- 1 The statement “If x is divisible by 8, then it is divisible by 6” is false if x equals
 - 1) 6
 - 2) 14
 - 3) 32
 - 4) 48

- 2 The statement "If x is prime, then it is odd" is *false* when x equals
 - 1) 1
 - 2) 2
 - 3) 3
 - 4) 4

- 3 Given the statement: "If x is a rational number, then \sqrt{x} is irrational." Which value of x makes the statement false?
 - 1) $\frac{3}{2}$
 - 2) 2
 - 3) 3
 - 4) 4

- 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.

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Answer Section

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|---|--------|---------------|
| 1 | ANS: 3 | REF: 069902a |
| 2 | ANS: 2 | REF: 060517a |
| 3 | ANS: 4 | REF: 060614a |
| 4 | ANS: 4 | REF: 061423ge |