

G.G.25: Compound Statements 1: Know and apply the conditions under which a compound statement (conjunction, disjunction, conditional, biconditional) is true

- 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 is *not* the square of an integer and x is a multiple of 3" is true when x is equal to
 - 1) 9
 - 2) 18
 - 3) 32
 - 4) 36
- 3 Stan was trying to guess Melanie's age. She told him her age was an even number and a multiple of three. What could be Melanie's age?
 - 1) 10
 - 2) 12
 - 3) 15
 - 4) 16
- 4 What is the smallest integer greater than 1 that is both the square of an integer and the cube of an integer?
 - 1) 8
 - 2) 9
 - 3) 36
 - 4) 64
- 5 The statement " $x \geq 4$ and $2x - 4 < 6$ " is true when x is equal to
 - 1) 1
 - 2) 10
 - 3) 5
 - 4) 4
- 6 Given the true statements: " t is a multiple of 3" and " t is even." What could be a value of t ?
 - 1) 8
 - 2) 9
 - 3) 15
 - 4) 24
- 7 The statement " $a > 2$ and $a < 5$ " is true when a is equal to
 - 1) 10
 - 2) 2
 - 3) 3
 - 4) 5
- 8 Seth is thinking of a number between 20 and 30. The number is prime and not more than 2 away from a perfect square. What is the number?

G.G.25: Compound Statements 1: Know and apply the conditions under which a compound statement (conjunction, disjunction, conditional, biconditional) is true**Answer Section**

1 ANS: 4 REF: 081101ge

2 ANS: 2 REF: 060416a

3 ANS: 2 REF: 010501a

4 ANS: 4 REF: 080120a

5 ANS: 4 REF: 010706a

6 ANS: 4 REF: 080701a

7 ANS: 3 REF: 010803a

8 ANS:

23. 23 is prime and not more than 2 away from a perfect square.

REF: 010221a