

Name _____

Date _____

Truth Values of Compound Sentences - Guided Lesson Explanation

In all cases we have compound sentences. Compound sentences can only be deemed true when all parts are true.

Explanation#1

$23 + 12 = 35$; True (T)

11 is a prime number; True (T)

(T and T = T)

Since both facts are true, the entire sentence is true.

Answer: True

Explanation#2

4 and 8 are even; True (T)

Tigers fly; False (F)

(T implies F = F)

Since a portion of the compound sentence is false, the entire sentence is false.

Answer: False

Explanation#3

$41 + 12 = 53$; True (T)

29 is a prime number; True (T)

(T and T = T)

Since both facts are true, the entire sentence is true.

Answer: True

