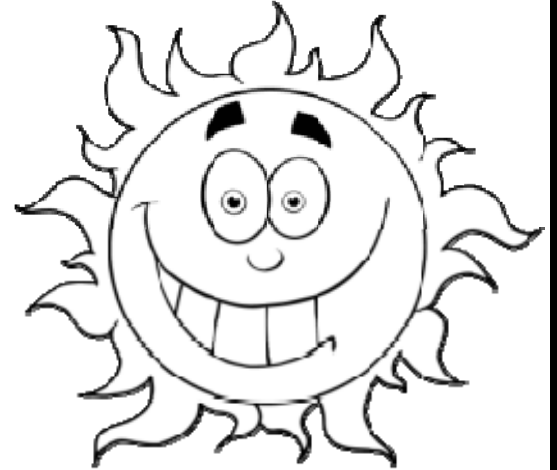## Logic- Negation- NOT & Conjunction- AND - Step-by-Step Lesson

What is the truth value of the negation of this sentence?

The sun rises in the East.

Explanation:

Negations always have the exact opposite truth value of the original statement. Under negation, TRUE becomes FALSE - or - FALSE becomes TRUE. Negations are usually formed by placing the word "not" in the sentence.

The sentence we are given is true. Our negation should have the opposite value (false).

So the negation of the given sentence could proceed in a number of ways. Two thoughts that would come right to my mind would be:

a) The sun rises in the West.

With the direction being the completely opposite.

b) The sun does not rise in the East.

In either example we provided the opposite value is provided.

So the truth value is: False

Answer: False