Name _____   Date _____

Truth Value of Open Sentences - Guided Lesson Explanation

Explanation#1

The sum of the interior angles of a polygon = 180 (n – 2) = 180

$$= 180n - 360 = 180$$

$$= 180n = 360 + 180; n = 3$$

After rearranging the equation we can see that the total number of sides of the polygon is 3; the sum of interior angles of a triangle is equal to 180°.

Answer: Triangle

Explanation#2

Solve for

x: $2x - 15 = 9$

$2x = 9 + 15$

$2x = 24$

$x = 24/2 = 12$

So, the answer is 12.

Answer: 12

Explanation#3

Open sentences have a variable and are too vague to prove. This sentence has a variable 'x' and is vague to prove.

So, the answer is open sentence.

Answer: Open