Correct. The polygon can be divided into a trapezoid and a rectangle. One base of the trapezoid is 2 cm and the other is $10 - 5 = 5$ cm. The height of the trapezoid is $3 + 1 = 4$ cm. Its area, in square centimeters, is:

$$A = \left(\frac{2 + 5}{2}\right) \cdot 4 = 14$$

The area of the rectangle is $A = 5 \cdot 1 = 5$ square centimeters.

The total area of the shape is $14 + 5 = 19$ square centimeters.