

Below is a student's, Nicole's, method for finding the total number of gray cobblestones. For the Size 3 and Size 9 cobblestone patterns, her arithmetic method is presented. On the side, her algebraic equation is presented.

Size 3

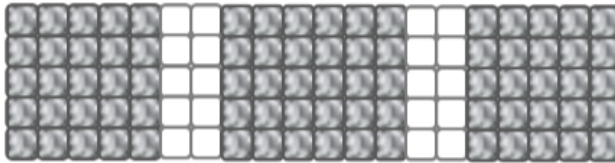


$$3^2 + 3 \cdot 4 + 3^2 = 30$$

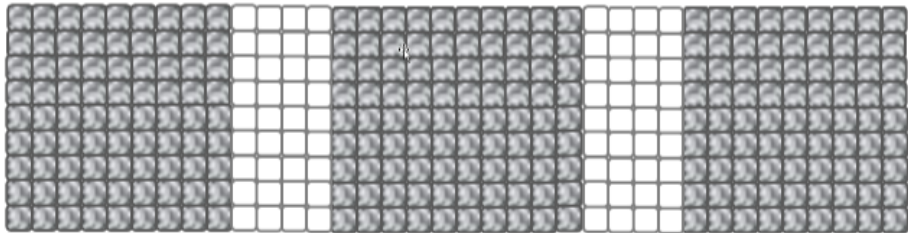
Nicole's equation:

$$x^2 + x \cdot (x + 1) + x^2 = T$$

Size 5



Size 9



$$9^2 + 9 \cdot 10 + 9^2 = 252$$

1. Apply Nicole's method to the Size 5 cobblestone to find the total number of gray stones. Circle and label your drawing.

2. Describe how you think Nicole is seeing the stones.

