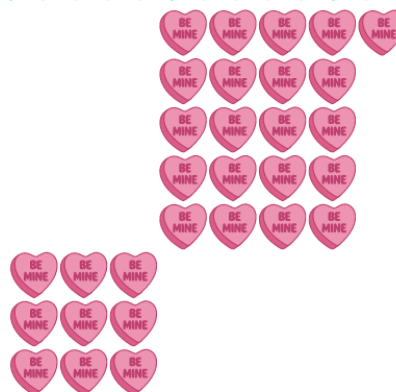Figure 1   Figure 2   Figure 3

The first three figures of a visual pattern of sweethearts are shown.

a. What do you notice about the pattern? What do you wonder?

b. What would Figure 4 look like? Describe it in words or draw a picture.

c. How many sweethearts are in Figure 5? How do you know?

d. Write a rule for the number of sweethearts in Figure n. Prove that your rule works.

e. Can you come up with an alternate way to write the rule for the number of sweethearts in Figure n? Show why this rule also works.

Math Medic