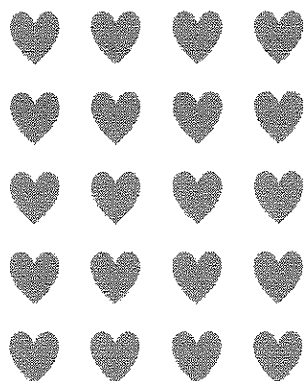


G3-M1-Lesson 2

1. Use the array below to answer the questions.



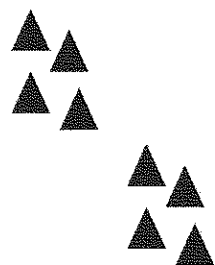
The hearts are arranged in an array, and I know that a row in an array goes straight across. There are 5 rows in this array. Each row has 4 hearts.

- a. What is the number of rows? 5
- b. What is the number of objects in each row? 4
- c. Write a multiplication expression to describe the array. 5×4

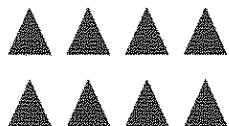
I know a multiplication expression is different from an equation because it doesn't have an equal sign.

I can write the expression 5×4 because there are 5 rows with 4 hearts in each row.

2. The triangles below show 2 groups of four.



- a. Redraw the triangles as an array that shows 2 rows of four.



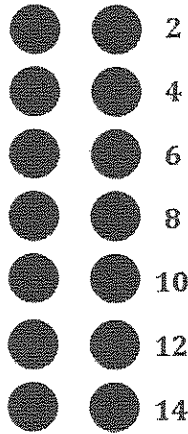
I can redraw the equal groups as an array. I can draw 2 rows with 4 triangles in each row.

I need to make sure to explain how they are the same *and* how they are different!

- b. Compare the groups of triangles to your array. How are they the same? How are they different?

They are the same because they both have the same number of triangles, 8. They are different because the triangles in the array are in rows, but the other triangles are not in rows.

3. Kimberly arranges her 14 markers as an array. Draw an array that Kimberly might make. Then, write a multiplication equation to describe your array.



$$7 \times 2 = 14$$

I can write the equation by writing the number of rows (groups), 7, times the number in each group, 2. The product (total) is 14.

This problem doesn't tell me the number of rows or the number of objects in each row. I need to use the total, 14, to make an array. Since 14 is an even number, I am going to make rows of 2. I can skip count by 2 and stop when I get to 14.

I think there are other arrays that would work for a total of 14. I can't wait to see what my friends came up with!