PATTERNS

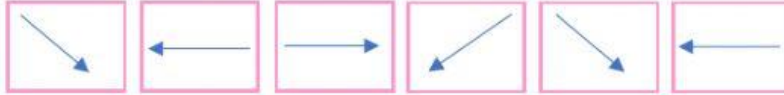**HOMEWORK**
5/4/2021

1. These figures form a pattern.

If the pattern continues the same way, what will be the 11th shape in the pattern?

a.	b.	c.	d.

2. The first three numbers make a pattern.

$$4, \quad 12, \quad 36,$$

If the pattern continues the same way, what will be the next three numbers in the pattern?

a. 100, 200, 300	b. 108, 324, 972	c. 39, 42, 45	d. 42, 50, 58

3. Evie is using a pattern to make figures from paper hearts like this one:
She has made four figures using this pattern, as shown.

Figure 1	Figure 2	Figure 3	Figure 4

Exactly how many paper hearts will Harper need to make the 7th figure in this pattern?

a. 25	b. 36	c. 49	d. 64

4. The first four fractions in the pattern below were made using the subtraction rule.

$$4\frac{2}{8}, \quad 4, \quad 3\frac{6}{8}, \quad 3\frac{4}{8},$$

If the pattern continues the same way, what will be the next fraction in the pattern?

a. $3\frac{2}{8}$	b. $3\frac{3}{8}$	c. $3\frac{1}{8}$	d. 2

5. The table has information about the number of pieces of candy contained in a package.

Number of Packages	2	4	6	8
Pieces of Candy	18	36	54	72

Based on the table, what would be the total number of pieces of candy in 10 of these packages?

a. 81	b. 90	c. 99	d. 108