#### **Finding Visual Patterns**

Task Name: Colored Tiles

**Task Description:** In this task, students will write expressions to describe the number of colored tiles in different tile arrangements.

Standards Addressed: HSA-SSE.A.1, HSA-SSE.A.1.a, HSA-SSE.A.1.b, HSN-Q.A.2

Grade Level: 9

Content Focus: Modeling growing patterns with equations.

Prior Knowledge: Students should have prior knowledge using variables to describe a changing quantity.

**Before the Launch:** 

Use printed images of each tile pattern and place them in a plastic cover at the center of each VNPS. Ask students to take out a paper when they calculate the number of tiles required for each pattern.

Lunch:

Teacher: I am planning to reconstruct my kitchen floor and have selected several tile patterns. I need assistance in calculating the number of tiles of each color required for each pattern. Would you like to help me?

Student :Yes,....

So For each pattern, please identify a way to group tiles efficiently to facilitate quick counting.

















8..







Type 3



#### **Consolidation :**

(Depends what you have on the boards do Gallery walk or send them for make your own pattern on the group work after a short look at the all boards )

The steps that we follow to counting the number of tails when we have size n:	Example :
<ul> <li>use color to make your thinking</li> <li>Look for equal Notice the of groups and the of the groups.</li> <li>Look for quantities that are and quantities that are staying the same.</li> <li>Look for areas, especially rectangles and</li> </ul>	
squares.	
(changing, size, groups, number,visible)	
Thought keeper:	Make your own pattern with two different colored tails.
	size 5, size n:

## CYU-Today

1.



Figure n ?







### **CYU-** Past:

# Unit 1, Lesson 1 – Ready, Go Mild:

#### Ready

Evaluate each of the expressions below using the given value.

- 1. 3n + 7, n = 12
- 2.  $w^2 3, w = 4$
- 3. 5(t 9) + 12, t = 20

#### Go

Graph the ordered pairs from the tables on the given graphs.

x	у
0	4
2	8
3	10
5	14



10.

x		<i>y</i> _
0		12
4		8
7		5
9		3
		5
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# Spicy

## Ready

Evaluate each of the expressions below using the given value.

4. 
$$\frac{2(x+13)}{3}, x = 5$$

5. 3(6m - 17), m = 5

6. 
$$\frac{2a}{3} + 13, a = 15$$

## Go

11.



x	у
1	6
1.5	7.5
3	12
4.25	15.75

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