Name _____

Problem Solving • Find a Rule

COMMON CORE STANDARD CC.5.OA.3
Analyze patterns and relationships.

Write a rule and complete the table. Then answer the question.

1. Faye buys 15 T-shirts, which are on sale for $3 each. How much money does Faye spend?

Number of T-Shirts	1	2	3	5	10	15
Amount Spent ($)	3	6	9			

Possible rule:
Multiply the number of T-shirts by 3.

The total amount Faye spends is ____**$45**____.

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2. The Gilman family joins a fitness center. They pay $35 per month. By the 12th month, how much money will the Gilman family have spent?

Number of Months	1	2	3	4	5	12
Total Amount of Money Spent ($)	35	70				

Possible rule:

_____

_____

The Gilman family will have spent _____.

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3. Hettie is stacking paper cups. Each stack of 15 cups is 6 inches high. What is the total height of 10 stacks of cups?

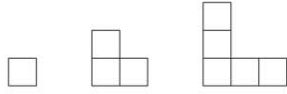| Number of stacks	1	2	3	10
Height (in.)	6	12	18	

Possible rule:

_____

_____

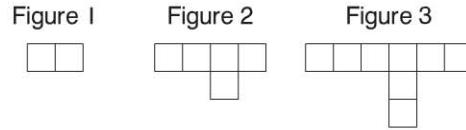The total height of 10 stacks is _____.

Lesson Check (CC.5.OA.3)

1. How many squares are needed to make the eighth figure in the pattern?

- (A) 14
- (B) 15
- (C) 16
- (D) 17

2. Which expression could describe the number of squares in the next figure in the pattern, Figure 4?

Figure 1   Figure 2   Figure 3

2 squares   5 squares   8 squares

- (A) $6 + 2$
- (C) $8 + 3$
- (B) $6 + 3$
- (D) $8 + 4$

Spiral Review (CC.5.OA.3, CC.5.NBT.2, CC.5.NBT.7, CC.5.NF.2)

3. A bakery displays their cookies equally on 7 trays. If there are 567 cookies, how many cookies are on each tray? **(Lesson 2.2)**

- (A) 487
- (B) 486
- (C) 81
- (D) 80

4. Ms. Angelino made 2 pans of lasagna and cut each pan into twelfths. Her family ate $1\frac{1}{12}$ pans of lasagna for dinner. How many pans of lasagna were left? **(Lesson 6.7)**

- (A) $\frac{11}{12}$
- (B) $1\frac{11}{12}$
- (C) $2\frac{1}{12}$
- (D) $3\frac{1}{12}$

5. What is the next number in this pattern?
(Lesson 3.10)

$$0.54, 0.6, 0.66, 0.72, \blacksquare, \ldots$$

- (A) 0.76
- (B) 0.78
- (C) 0.8
- (D) 0.82

6. How do you write 100 as a power of 10?
(Lesson 1.4)

- (A) 10^0
- (B) 10^1
- (C) 10^2
- (D) 10^3