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	15	30	45

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

The total amount Faye spends is $45.

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	105	140	175	420

Possible rule: Multiply the number of months by 35.

The Gilman family will have spent $420.

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	60

Possible rule: Multiply the number of stacks by 6.

The total height of 10 stacks is 60 in.

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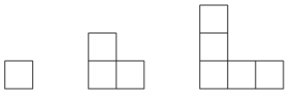
TEST PREP

Lesson Check (CC.5.OA.3)

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



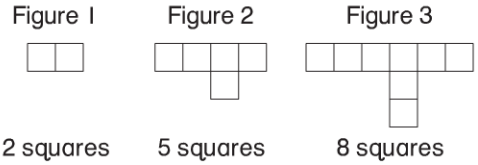
Ⓐ 14

● 15

Ⓒ 16

Ⓓ 17

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



Ⓐ $6 + 2$

Ⓑ $6 + 3$

● $8 + 3$

Ⓓ $8 + 4$

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)**

Ⓐ 487

Ⓑ 486

● 81

Ⓓ 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)**

● $\frac{11}{12}$

Ⓑ $1\frac{11}{12}$

Ⓒ $2\frac{1}{12}$

Ⓓ $3\frac{1}{12}$

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

0.54, 0.6, 0.66, 0.72, ■, . . .

Ⓐ 0.76

● 0.78

Ⓒ 0.8

Ⓓ 0.82

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

Ⓐ 10^0

Ⓑ 10^1

● 10^2

Ⓓ 10^3

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