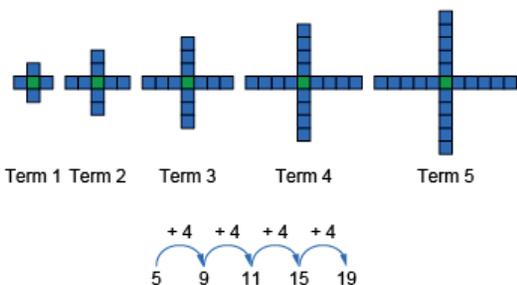


## Activity 2 Assessment

### Investigating Number Patterns

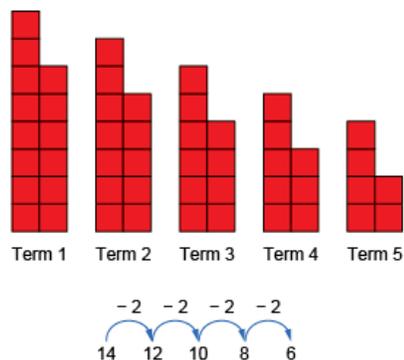
#### Number Pattern Relationships

Recognizes pattern relationships in increasing patterns.



"I see a skip-counting by 4 forward relationship in the pattern. The rule is: Start with 5 tiles and add 4 tiles each time."

Recognizes pattern relationships in decreasing patterns.



"I see a skip-counting by 2 backward relationship in the pattern. The rule is: Start with 14 tiles and take away 2 tiles each time."

Identifies and describes pattern relationships in tables, charts, and diagrams.

Number of Bracelets	Number of Plain Beads	Number of Patterned Beads
1	4	12
2	8	24
3	12	36
4	16	48

"The rule for the number of plain beads is: Multiply the number of bracelets by 4:  $4n$ .  
I see number relationships:  
 $1 \times 4 = 4$ ,  $2 \times 4 = 8$ ,  $3 \times 4 = 12$ ,  $4 \times 4 = 16$ ."

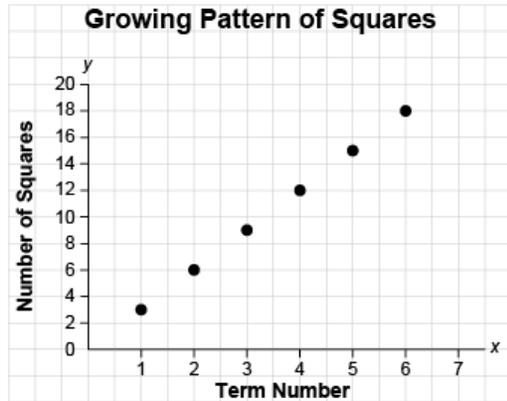
#### Observations/Documentation

## Activity 2 Assessment

### Investigating Number Patterns

#### Number Pattern Relationships (cont'd)

Identifies and describes pattern relationships on graphs.



“The graph shows the pattern rule: Start with 3 squares. Multiply the term number by 3 each time. The expression  $3t$  describes the pattern relationship.”

Describes patterns to illustrate the relationships among whole numbers and decimals with tenths and hundredths.

$$9.00 + 0.5 + 0.06 = 9.56$$

$$9.00 + 0.4 + 0.16 = 9.56$$

$$9.00 + 0.3 + 0.26 = 9.56$$

$$9.00 + 0.2 + 0.36 = 9.56$$

$$9.00 + 0.1 + 0.46 = 9.56$$

$$9.00 + 0.0 + 0.56 = 9.56$$

“I noticed a pattern: As the second addend decreases by 0.1, the third addend increases by 0.10, so the sum stays the same.”

Fluently identifies and describes different patterns in a variety of representations.

Day	Number of Pushups	Number of Star Jumps
1	10	12
2	13	15
3	16	20
4	19	27
5	22	36
6	25	47

On which day will 40 pushups be completed?

“I wrote an expression for the pattern rule using multiplication:  $3d + 7$ , where  $d$  is the day number. I substituted values for  $d$  until I got 40:  $3 \times 11 + 7 = 40$ ; Day 11.”

#### Observations/Documentation