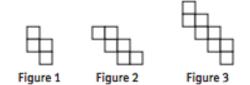
Lesson I-2 Homework

Check Your Understanding

A pattern of small squares is shown below. Use the pattern to respond to the following questions.



- Create a table to show the number of small squares in the first through the fifth figures, assuming the pattern continues.
- 22. Write the number of small squares in each figure as a sequence. Does the sequence have a common difference? If so, identify it. If not, explain.
- How many small squares would be in the 10th figure? Justify your response using the sequence or the table.
- Use the variable n to write an expression that could be used to determine the number of small squares in any figure in the pattern.
- Use your expression to determine the number of small squares in the 20th figure.

Answers

21.	Figure Number	Number of Squares
	1	4
	2	6
	3	8
	4	10
	5	12

- 22. 4, 6, 8, 10, 12, ...; yes; common difference: 2
- **23.** 22; 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ...
- 24. 4 + 2(n − 1) or 2n + 2
 25. 42
- 25.42

LET'S TRACK IT!

- $5 \operatorname{correct} = 4$
- 4 correct = $\mathbf{3}$
- 3 correct = **2**
- 1 or 2 correct = **1**
 - 0 correct = **0**