15 Copy the table below and extend it to include the next two terms in the shape and number sequences.

Term number		1	2	3	4	5	6	...
Term	Shape sequence					?	?	...
	Number sequence	1	3	5	7	?	?	...

16 **Try This as a Class**

a. Explain how to sketch the 20th term in the shape sequence.

b. Describe two ways to find the 20th term of the number sequence.

c. Write an equation that can be used to find any term of the number sequence from its term number. Use t for the term and n for the term number.

d. Use your equation to find the 75th term of the number sequence.

e. Are the numbers in the number sequence *even* or *odd*? How can you tell from the shapes in the shape sequence?

f. How can you tell whether a number is *even* or *odd* without sketching a shape?

✔ QUESTION 17

...checks that you can write a rule for finding the terms of a sequence.

17 **✔ CHECKPOINT**

a. How is each term in the number sequence below related to its term number?

Term number	1	2	3	4	...
Term	4	5	6	7	...

b. Write an equation for the rule for the sequence. Be sure to identify what each variable in the equation represents.

c. Use the equation to find the 67th term in the sequence.

HOMEWORK EXERCISES See Exs. 10–19 on pp. 24–25.