Sequences

1. a. Complete the following table.

n	1	2	3	4	5	6
	0	00	00	0		
		\circ \circ	\circ \circ	$\circ \circ$		
			\circ \circ	$\circ \circ$		
				$\circ \circ$		
a	2					

b. Find a rule for the **nth term**.

c. What is the 28th term in the sequence shown?

d. Is the number 448 a number in this sequence?

Sequences

- 2. Below is a linear sequence. The pattern for one of the terms is incorrect.
 - a. Correct the pattern.

n	1	2	3	4	5	6
a	3					

b. Find an expression for the **nth term**.

c. What is the 48th term in this sequence?

Sequences

n	1	2	3	4	5	6
a	2					

- 3. a. Complete the table for the sequence above.
 - b. Find an expression for the nth term for this sequence.
 - c. Show that 782 is a member of this sequence.

Sequences

4. Is this sequence a linear sequence?



Explain how you know.

5. a. What are the next four terms in this sequence?



b. Find an expression for the nth term.

Sequences

6. Is this a linear sequence?







Explain how you know.

Draw the next two terms in the sequence.

Explain why it might be difficult to draw the sixth term in the sequence.

Sequences

7. Is there a pattern to the sequence shown?



Can you explain what the next two terms in the sequence might be?

8. What sequences can you see in the patterns on the right?



Sequences

Draw the next row in the pattern.

