



Ready, Set, Go!

Ready

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Topic: Comparing linear equations and arithmetic sequences

1. Describe similarities and differences between linear equations and arithmetic sequences.

Similarities	Differences

Set

Topic: representations of arithmetic sequences

Use the given information to complete the other representations for each arithmetic sequence.

2.

<p>Table</p> <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Days</td> <td style="padding: 2px;">1</td> <td style="padding: 2px;">2</td> <td style="padding: 2px;">3</td> <td style="padding: 2px;">4</td> </tr> <tr> <td style="padding: 2px;">Cost</td> <td style="padding: 2px;">8</td> <td style="padding: 2px;">16</td> <td style="padding: 2px;">24</td> <td style="padding: 2px;">32</td> </tr> </table>	Days	1	2	3	4	Cost	8	16	24	32	<p>Graph</p>
Days	1	2	3	4							
Cost	8	16	24	32							
<p>Recursive Equation</p>	<p>Explicit Equation</p>										
<p>Create a context:</p>											



3.

Table	Graph
Recursive Equation $f(n) = f(n - 1) + 3;$ $f(1) = 4$	Explicit Equation
Create a context:	

4.

Table	Graph
Recursive Equation	Explicit Equation $f(n) = 4 + 5(n - 1)$
Create a context:	



5.

Table	Graph
Recursive Equation	Explicit Equation
Create a context: Janet wants to know how many seats are in each row of the theater. Jamal lets her know that each row has 2 seats more than the row in front of it. The first row has 14 seats.	

Go

Topic: Writing explicit equations

Given the recursive equation for each arithmetic sequence, write the explicit equation.

6. $f(n) = f(n - 1) - 2; f(1) = 8$

7. $f(n) = 5 + f(n - 1); f(1) = 0$

8. $f(n) = f(n - 1) + 1; f(1) = \frac{5}{3}$

