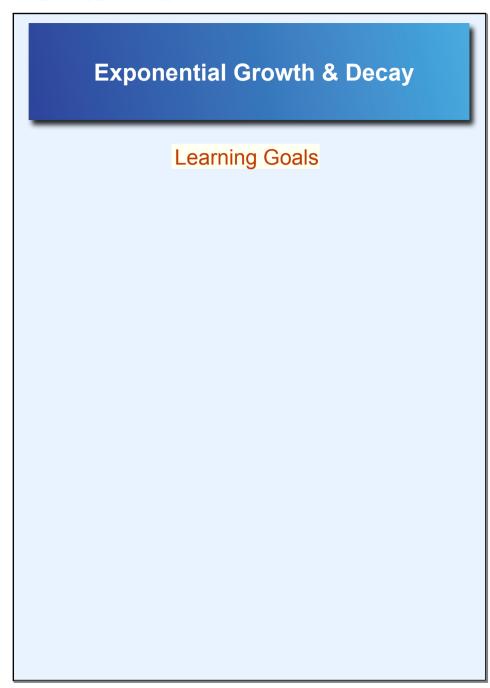
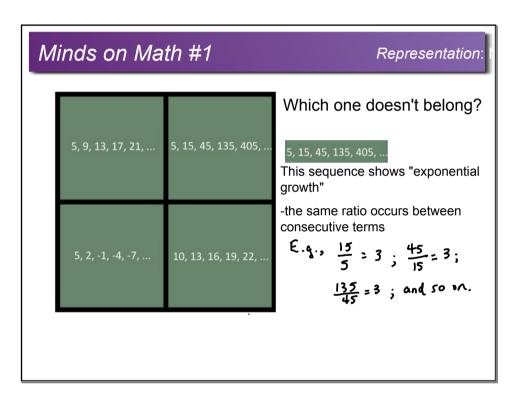
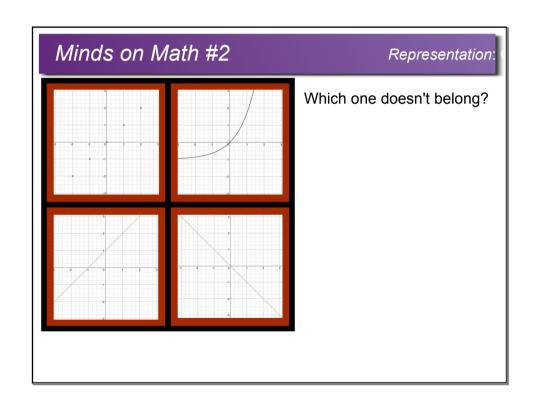
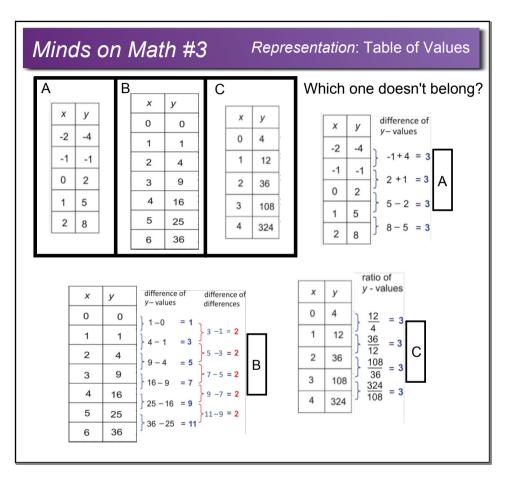
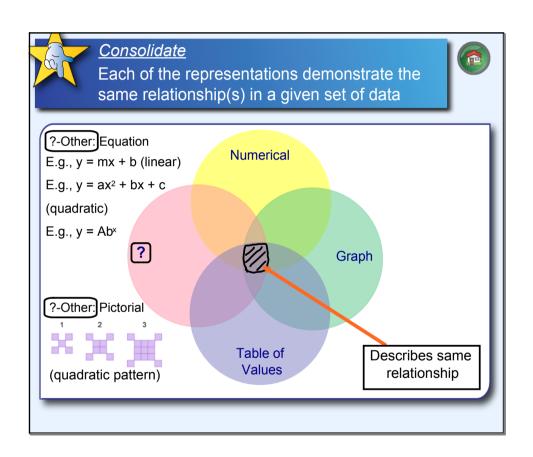
## **Growth\_Decay\_Factors\_Lead into Exp Relations**











# Take Action #1

### Remember your goals:

-identify "growth" and "decay" factors (for relationships that are "exponential")

-represent growth and decay using different forms

#### Consider the following data set:

	٠	1 +1		<del>{                                      </del>
X	1	2	<b>3</b> /	
У	2	6	18	
×3 ×3				

One of the later terms in the sequence of y-values is 4374.

Determine the previous two terms.

Let  $t_n$  be any term in the sequence, where n is a whole number. If  $t_n = 4374$ , then the previous two terms

are given by + n-1 and + n-2.

50, 
$$+_{n-1} = \frac{t_n}{3}$$
;  $t_{n-2} = \frac{t_{n-1}}{3}$   
= 1458  
= 1458

.. The previous two terms to 4324 are 486 and 1458.

## **Growth\_Decay\_Factors\_Lead into Exp Relations**

