

# Skill: Exponential Functions

## Investigation 2

### Growing, Growing, Growing

Complete the table for each exercise.

1. Investment increases by 1.5 times every 5 yr.

Time	Value of Investment
Initial	\$800
5 yr	\$1200
10 yr	\$1800
15 yr	\$2700
20 yr	
25 yr	

2. The number of animals doubles every 3 mo.

Time	Number of Animals
Initial	18
3 mo	36
6 mo	72
9 mo	
12 mo	

3. The amount of matter doubles every 6 months.

Time	Amount of Matter
Initial	10 g
1 yr	40 g
2 yr	160 g
3 yr	
4 yr	

**Skill: Exponential Functions** *(continued)***Investigation 2****Growing, Growing, Growing****Graph each function.**

4.  $y = 3^x$

5.  $y = 10 \cdot 5^x$

6.  $y = \frac{1}{8} \cdot 2^x$