

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Problem-Based Task: Building Houses and Comparing Functions

Two construction companies have been building houses in a new town. The following table shows the number of houses that have been built each year for the past 4 years by Company A. The graph shows the number of houses that have been built by Company B over the same amount of time. The  $x$ -axis represents the year, while the  $y$ -axis represents the number of houses built. Which company do you predict will be more successful in the future, and why?

**SMP**

1 ✓ 2  
3 ✓ 4  
5 6  
7 ✓ 8

$x$	$f(x)$
1	1
2	4
3	9
4	16

