

# Proportional vs. Nonproportional Relationships

## Sorting Activity Record Sheet

Name \_\_\_\_\_

Hour \_\_\_\_\_ Date \_\_\_\_\_

Sort each table of values as proportional or nonproportional. Support your conclusions by graphing. For each proportional relationship, write an equation to model the data. Highlight the constant of proportionality in each equation and the unit rate in each table. For each nonproportional relationship, explain why the data is not proportional.

**p**

X	Y

equation: \_\_\_\_\_

**Np**

X	Y

∴ \_\_\_\_\_

**p**

X	Y

equation: \_\_\_\_\_

**Np**

X	Y

∴ \_\_\_\_\_

**p**

X	Y

equation: \_\_\_\_\_

**Np**

X	Y

∴ \_\_\_\_\_

### Extension...

Choose one set of data that models a proportional relationship. Create a story that describes the data in context. Then choose a set of data that models a nonproportional relationship and adjust your first story to describe this set of data.



