Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_\_\_\_ Per.\_\_\_\_ Date \_\_\_\_\_\_\_\_\_ **Ch. 6 Study Sheet**

*Create examples for each category listed from Chapter 6*

DIFFERENT FORMS OF RELATIONS. Create 5 ordered pairs, then fill in the other forms from those ordered pairs. (HINT: make sure it is y=mx+b)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table | Ordered Pairs | Mapping Diagram | Graph | Equation | Written Sentence |

Create examples of relations that are FUNCTIONS. Explain why each is a function.

|  |  |  |  |
| --- | --- | --- | --- |
| Ordered Pairs | Mapping Diagrams | Tables | Graphs |

Create examples of relations that are NOT FUNCTIONS. Explain why each is not a function.

|  |  |  |  |
| --- | --- | --- | --- |
| Ordered Pairs | Mapping Diagram | Tables | Graphs |

Create example slopes and sketch the graphs

|  |  |  |  |
| --- | --- | --- | --- |
| POSITIVE SLOPE | NEGATIVE SLOPE | ZERO SLOPE | UNDEFINED SLOPE |

**Create tables and graphs and then write their function rules.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CREATE A TABLE. THEN FIND THE LINEAR FUNCTION IN y = mx + b   |  |  | | --- | --- | | **x** | **y** | |  |  | | CREATE A TABLE. THEN FIND THE LINEAR FUNCTION IN y = mx + b   |  |  | | --- | --- | | **x** | **y** | |  |  | |
| CREATE A LINEAR GRAPH. THEN WRITE THE LINEAR FUNCTION IN y = mx + b, THAT RELATES Y TO X. | CREATE A LINEAR GRAPH. THEN WRITE THE LINEAR FUNCTION IN y = mx + b, THAT RELATES Y TO X. |

Create equations and then make tables to graph

|  |  |  |  |
| --- | --- | --- | --- |
| Equation in y = mx + b (slope (m) is an integer) | Equation in y = mx + b (slope (m) is a fraction) | Graph of the equation produces a horizontal line | Graph of the equation produces a vertical line |