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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Relations and Functions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | 4  M | A | X | I | M | U | M |  | E |  | N |  |  |  |
|  |  |  |  |  |  | M |  |  |  |  |  |  |  | R |  | C |  |  |  |
|  |  |  |  |  |  | E |  | 5  H |  |  |  |  |  | T |  | T |  | 6  F |  |
|  |  | 7  R | E | L | A | T | I | O | N |  |  |  | 8  M | I | N | I | M | U | M |
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|  |  |  | 9  Y |  |  | Y |  | I |  |  |  | 10  X |  | A |  | N |  | C |  |
|  |  |  | I |  |  |  |  | Z |  | 11  M |  | I |  | L |  | N |  | T |  |
|  | 12  R | A | N | G | E |  | 13  D | O | M | A | I | N |  |  |  | O |  | I |  |
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|  |  |  | E |  |  | 14  E |  | T |  | P |  | 15  E | N | D |  | A |  | N |  |
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| 16  V | E | R | T | I | C | A | L | L | I | N | E | T | E | S | T |  |  |  |  |
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| **Across**  **4.** The y-coordinate of the highest point on a graph.  **7.** A set of ordered pairs.  **8.** The y-coordinate of the lowest point on a graph.  **12.** The set of output values in a relation.  **13.** The set of input values in a relation.  **15.** The behavior of a graph as x approaches positive or negative infinity.  **16.** Used to determine whether a graph is a function. | **Down**  **1.** When a figure can be folded about a line so that it matches exactly.  **2.** Used to emphasize that a function value f(x) depends on the variable x.  **3.** This type of line is never a function.  **5.** This type of line is always a function.  **6.** A relation that assigns exactly one output for each input.  **9.** The place where a graph crosses the y-axis.  **10.** The place where a graph crosses the x-axis.  **11.** A diagram used to determine whether a relation is or is not a function.  **14.** To replace a variable with a number and simplify. |