Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Order Up!**

Substitute each value for *x* into the expression below.

Expressions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A**$$\frac{1}{3}(x+6)$$ | **B**$$-\frac{1}{2}x-8$$ | **C**$$\frac{2x+4}{x}$$ | **D**$$-3.5(4-x)$$ | **E**$$2(x+8)$$ |
| Value when*x* = 3 : | Value when*x* = 3 : | Value when*x* = 3 : | Value when*x* = 3 : | Value when*x* = 3 : |
| Value when*x* = –6 : | Value when*x* = –6 : | Value when*x* = –6 : | Value when*x* = –6 : | Value when*x* = –6 : |
| Value when*x* = 0 : | Value when*x* = 0 : | Value when*x* = 0 : | Value when*x* = 0 : | Value when*x* = 0 : |

Order the values of the expressions from least to greatest in the tables below. Record the corresponding letter and the value of the expression in each column.

|  |
| --- |
| When *x* = 3 |
|  |
|  |
|  |
|  |
|  |

|  |
| --- |
| When *x* = 0 |
|  |
|  |
|  |
|  |

|  |
| --- |
| When *x* = –6 |
|  |
|  |
|  |
|  |
|  |

**Communicating About Mathematics**

Did one equation always have the largest value? Explain your reasoning.

