**Multiplying Negative Numbers by Negative Numbers**

Complete the following table.

|  |  |  |
| --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** |
| (−5) • 3 | −15 | *no previous problem* |
| (−5) • 2 | −10 | 5 |
| (−5) • 1 |  |  |
| (−5) • 0 |  |  |
| (−5) • (−1) |  |  |
| (−5) • (−2) |  |  |

Complete the following table.

|  |  |  |
| --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** |
| (−8) • 2 | −16 | *no previous problem* |
| (−8) • 1 | −8 | 8 |
| (−8) • 0 |  |  |
| (−8) • (−1) |  |  |
| (−8) • (−2) |  |  |
| (−8) • (−3) |  |  |

Do you see a pattern developing for how to multiply a negative number by a negative number? What do you think that pattern is?

**Multiplying Negative Numbers by Negative Numbers – KEY**

Complete the following table.

|  |  |  |
| --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** |
| (−5) • 3 | −15 | *no previous problem* |
| (−5) • 2 | −10 | 5 |
| (−5) • 1 | ***−5*** | ***5*** |
| (−5) • 0 | ***0*** | ***5*** |
| (−5) • (−1) | ***5*** | ***5*** |
| (−5) • (−2) | ***10*** | ***5*** |

Complete the following table.

|  |  |  |
| --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** |
| (−8) • 2 | −16 | *no previous problem* |
| (−8) • 1 | −8 | 8 |
| (−8) • 0 | ***0*** | ***8*** |
| (−8) • (−1) | ***8*** | ***8*** |
| (−8) • (−2) | ***16*** | ***8*** |
| (−8) • (−3) | ***24*** | ***8*** |

Do you see a pattern developing for how to multiply a negative number by a negative number? What do you think that pattern is? ***Repeated addition.***