**Multiplying Positive Numbers by Negative Numbers**

Complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** | **Notes** |
| 3 • 3 | 9 | *no previous problem* |  |
| 3 • 2 | 6 | −3 |  |
| 3 • 1 |  |  |  |
| 3 • 0 |  |  |  |
| 3 • (−1) |  |  |  |
| 3 • (−2) |  |  |  |

Complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** | **Notes** |
| 4 • 3 | 12 | *no previous problem* |  |
| 4 • 2 | 8 | −4 |  |
| 4 • 1 |  |  |  |
| 4 • 0 |  |  |  |
| 4 • (−1) |  |  |  |
| 4 • (−2) |  |  |  |

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

**Multiplying Positive Numbers by Negative Numbers - KEY**

Complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** | **Notes** |
| 3 • 3 | 9 | *no previous problem* |  |
| 3 • 2 | 6 | −3 |  |
| 3 • 1 | ***3*** | ***−3*** |  |
| 3 • 0 | ***0*** | ***−3*** |  |
| 3 • (−1) | ***−3*** | ***−3*** |  |
| 3 • (−2) | ***−6*** | ***−3*** |  |

Complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Problem** | **Answer** | **Difference between this answer and the one on the previous line** | **Notes** |
| 4 • 3 | 12 | *no previous problem* |  |
| 4 • 2 | 8 | −4 |  |
| 4 • 1 | ***4*** | ***−4*** |  |
| 4 • 0 | ***0*** | ***−4*** |  |
| 4 • (−1) | ***−4*** | ***−4*** |  |
| 4 • (−2) | ***−8*** | ***−4*** |  |

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