**Decimal Operations**

**Adding Decimals**

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| --- | --- | --- | --- |
| Add: 2.14 + 0.561  2.140  + 0.561 | Line up the decimals and use zeros as place holders:  2.140  + 0.561  2.701  Bring down the decimal | Add: -2.14 + 0.561  -2.140  + 0.561 | Line up the decimals and use zeros as place holders:  2.140  - 0.561  -1.579  \*\*Subtract because of adding negative rules and take the sign of the larger  Bring down the decimal |

**Subtracting Decimals**

|  |  |  |  |
| --- | --- | --- | --- |
| Subtract: 8.156 - 0.43  8.156  - 0.430 | Line up the decimals and use zeros as place holders:  8.156  - 0.430  7.721  Bring down the decimal | Subtract -8.156 - 0.43  8.156  - 0.430 | Line up the decimals and use zeros as place holders:  - 8.156  + -0.430  -8.586  \*\*Add because of subtraction negative rules (keep flip change)  Bring down the decimal |

You Try!

|  |  |
| --- | --- |
| 1. -2.006 + -3.4 | 2. -0.05- 0.412 |

**Multiplying Decimals**

Multiplying Decimals Example:

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| --- | --- | --- |
| Multiply: 3.24 x -0.56  3.24  × -0.56 | Multiply as if the numbers were whole numbers/integers:  324  × 56  1944 + 16200  18144 | Each number has two numbers behind the decimal.  The product has four total decimal places after the decimal.  Use integer rules to determine the final sign of the product.  3.24  × -.56  1944 + 16200  -1.8144 |

You Try!

|  |  |
| --- | --- |
| 1. -2.006 x -3.4 | 2. -1.05(0.004) |

Dividing Decimals Notes

Dividing Decimals Example:

|  |  |
| --- | --- |
| Divide: 63 ÷ -5.25    The divisor must be a whole number. Move the decimal to the right until it is a whole number. Move the decimal in the dividend the same number of times, adding zeros. | Place the decimal in the quotient right above where it is in the dividend. Divide.  Use integer rules to determine the final sign of the quotient.  -12.    - 525  1050  - 1050  0 |

You Try!

|  |  |
| --- | --- |
| 1. 251.43 ÷ 0.3 = | 2. -0.248 ÷ .016 |