**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 largerBring down the decimal  |

**Subtracting Decimals**

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| --- | --- | --- | --- |
| Subtract: 8.156 - 0.43 8.156 - 0.430  | Line up the decimals and use zeros as place holders: 8.156 - 0.430 7.721Bring 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:

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| Divide: 63 ÷ -5.25The 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 |