

Pre-Algebra  
Decimal Review

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_\_

Adding Decimals

Steps

- 1 Write down the numbers, one under the other, with the decimals lined up.
- 2 Add placeholders (zeros) so the numbers have the same length.
- 3 Starting with the right column, add each column like normal. Remember to put the decimal in your final answer.

①  $421.053 + 16.59$

$$\begin{array}{r} 421.053 \\ + 16.590 \\ \hline 437.643 \end{array}$$

$437.643$

Examples

②  $16.982 + 15$

$$\begin{array}{r} 16.982 \\ + 15.000 \\ \hline 31.982 \end{array}$$

$31.982$

Subtracting Decimals

Steps

- 1 Write down the numbers, one under the other, with the decimals lined up.
- 2 Starting with the right column, subtract each column like normal. Remember to put the decimal in your final answer.
- 3 Starting with the right column, subtract each column like normal. Remember to put the decimal in your final answer.

①  $98.83 - 62.019$

$$\begin{array}{r} 98.830 \\ - 62.019 \\ \hline 36.811 \end{array}$$

$36.811$

Examples

②  $112.6 - 23$

$$\begin{array}{r} 112.6 \\ - 23.0 \\ \hline 89.6 \end{array}$$

$89.6$

## Multiplying Decimals

### Steps

- 1 Line up the numbers from the right side (NOT by the decimals).
- 2 Multiply like normal ignoring the decimals.
- 3 Add the decimal back into your answer. There should be the same amount of numbers after the decimal in your answer as the amount in the two original numbers combined.

①  $32.1 \times 0.2$

$$\begin{array}{r} 32.1 \\ \times 0.2 \\ \hline 642 \\ + 0000 \\ \hline 06.42 \end{array}$$

$6.42$

### Examples

②  $1.8 \times 4.623$

$$\begin{array}{r} 4 \quad 4.623 \\ \times 1.8 \\ \hline 136984 \\ + 46230 \\ \hline 83214 \end{array}$$

$8.3214$

## Dividing Decimals

### Steps

- 1 If the divisor (number on the outside) is not a whole number, move the decimal point to the right to make it a whole number and move the decimal point in the dividend (number on the inside) the same number of places.
- 2 Divide as usual keeping all of the numbers in a straight line.
- 3 Put the decimal point directly above the decimal point in the dividend.

①  $118.8 \div 5.4$

$$\begin{array}{r} 22. \\ 54 \overline{) 118.8} \\ \underline{-108} \downarrow \\ 108 \\ \underline{-108} \\ 0 \end{array}$$

$22.0$   
OR  
 $22$

### Examples

②  $8.96 \div 0.16$

$$\begin{array}{r} 56. \\ 0.16 \overline{) 8.96} \\ \underline{-80} \downarrow \\ 96 \\ \underline{-96} \\ 0 \end{array}$$

$56.0$   
OR  
 $56$