

### Divide Decimals by Decimals

- 1) In the divisor move decimal to the right to get a whole number.
- 2) Move decimal in dividend same number of place values you moved decimal in divisor.
- 3) Then place the decimal point in the quotient above the decimal point in the dividend and divide as you would with whole numbers.
- 4) If there is a remainder write zeros in the dividend as needed and divide until there is no remainder.

#### EXAMPLE 4

Cookies for a school fundraiser cost \$3.75 per box. The total amount received from the cookie sale is \$2718.75. How many boxes of cookies were sold?

$$\begin{array}{r}
 725 \\
 3.75 \overline{) 2718.75} \\
 \underline{2625} \phantom{0} \\
 937 \\
 \underline{-750} \\
 1875 \\
 \underline{-1875} \\
 0
 \end{array}$$

725 boxes of cookies were sold.

Evaluate the expression.

1)  $23.4 + 34.4 \div 4$

$$\begin{array}{r}
 23.4 + 8.6 \\
 \hline
 32.0 \\
 \hline
 23.4 \\
 - 8.6 \\
 \hline
 32.0
 \end{array}$$

2)  $28.65 \div 5 - 4.85$

$$\begin{array}{r}
 5.73 \\
 5 \overline{) 28.65} \\
 \underline{-25} \\
 36 \\
 \underline{-35} \\
 15 \\
 \underline{-15} \\
 0
 \end{array}$$

3)  $21.5 \div 5 \times 8$

$$\begin{array}{r}
 4.3 \\
 5 \overline{) 21.5} \\
 \underline{-20} \\
 15 \\
 \underline{-15} \\
 0
 \end{array}$$

4)  $7.3 \times 3.6 \div 9$

$$\begin{array}{r}
 26.28 \div 9 \\
 \hline
 2.92 \\
 9 \overline{) 26.28} \\
 \underline{18} \\
 82 \\
 \underline{-81} \\
 18 \\
 \underline{-18} \\
 0
 \end{array}$$

5)  $79.8 \div 7 \div 3$

$$\begin{array}{r}
 11.4 \\
 7 \overline{) 79.8} \\
 \underline{-70} \\
 98 \\
 \underline{-98} \\
 0
 \end{array}$$

6)  $18.1 \times (9.6 \div 6)$

$$\begin{array}{r}
 1.6 \\
 6 \overline{) 9.6} \\
 \underline{-6} \\
 36 \\
 \underline{-36} \\
 0
 \end{array}$$