

Writing and Recognizing Decimals in Expanded Form



Decimal 625.48

Expanded Form

$$600 + 20 + 5 + 0.4 + 0.08$$


Expanded Form to Decimal

Merge the numbers as they appear in expanded form.

$$200 + 40 + 3 + 0.6 + 0.01 + 0.008$$

$$243.618$$

Expanded Form to Decimal

If you have trouble merging the numbers in this manner, line the numbers up and add.

$$\begin{array}{r}
 200 \\
 40 \\
 3 \\
 0.6 \\
 0.01 \\
 + 0.008 \\
 \hline
 243.618
 \end{array}$$

Decimal to Expanded Form

When changing decimals to expanded form just name the place value where each number is found. View the place value chart below to help you.

$$324.791$$

$$300 + 20 + 4 + 0.7 + 0.09 + 0.001 = 324.791$$

3	2	4	.	7	9	1
Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths