

Name _____

Date _____ **ANSWER KEY**

Decimals in Expanded Form

You can write decimal numbers in different forms. Here's an example.

standard form	expanded form addition only	expanded form addition and multiplication
6.342	$6 + 0.3 + 0.04 + 0.002$	$6 \times 1 + 3 \times \frac{1}{10} + 4 \times \frac{1}{100} + 2 \times \frac{1}{1,000}$

Directions: Fill in the blanks in the table below.

standard form	expanded form addition only	expanded form addition and multiplication
2.6	$2 + 0.6$	$2 \times 1 + 6 \times \frac{1}{10}$
5.3	$5 + 0.3$	$5 \times 1 + 3 \times \frac{1}{10}$
4.08	$4 + 0.08$	$4 \times 1 + 8 \times \frac{1}{100}$
6.279	$6 + 0.2 + 0.07 + 0.009$	$6 \times 1 + 2 \times \frac{1}{10} + 7 \times \frac{1}{100} + 9 \times \frac{1}{1,000}$
0.92	$0.9 + 0.02$	$9 \times \frac{1}{10} + 2 \times \frac{1}{100}$
3.507	$3 + 0.5 + 0.007$	$3 \times 1 + 5 \times \frac{1}{10} + 7 \times \frac{1}{1,000}$
1.364	$1 + 0.3 + 0.06 + 0.004$	$1 \times 1 + 3 \times \frac{1}{10} + 6 \times \frac{1}{100} + 4 \times \frac{1}{1,000}$
8.005	$8 + 0.005$	$8 \times 1 + 5 \times \frac{1}{1,000}$
0.43	$0.4 + 0.03$	$4 \times \frac{1}{10} + 3 \times \frac{1}{100}$