

Reading Decimals

To read a decimal, first read it as though it were a whole number. Then give it a decimal name according to the number of decimal places. Remember that the number of places to the right of the decimal point tells you the decimal name. Use the chart on page 62 as a reminder. In the following examples, notice how zeros hold places. With mixed decimals, watch for the word *and* which separates whole numbers from decimal fractions.

EXAMPLES

Decimal	Number of Decimal Places	Words
0.06	two	<i>six hundredths</i>
0.0042	four	<i>forty-two ten-thousandths</i>
7.003	three	<i>seven and three thousandths</i>
19.5	one	<i>nineteen and five tenths</i>

For problems 1 through 6, fill in the blanks with the correct decimal name.

- 0.8 = eight _____ 0.3 = three _____ 0.06 = six _____
- 0.17 = seventeen _____ 0.09 = nine _____ 0.005 = five _____
- 0.023 = twenty-three _____ 0.0028 = twenty-eight _____
- 0.308 = three hundred eight _____ 0.0006 = six _____
- 4.02 = four and two _____ 20.012 = twenty and twelve _____
- 90.3 = ninety and three _____ 5.0041 = five and forty-one _____

For problems 7 through 11, write each decimal or mixed decimal in words.

- 0.5 = _____ 2.9 = _____
- 0.07 = _____ 3.12 = _____
- 0.016 = _____ 1.003 = _____
- 0.009 = _____ 7.021 = _____
- 0.0016 = _____ 10.402 = _____

Writing Decimals

To write decimals from words, be sure that you have the correct number of decimal places. Use zeros to hold places where necessary. Remember, again, that the word *and* separates whole numbers from decimal fractions in mixed decimals. Study the following examples carefully. Watch where zeros hold places.

EXAMPLES

Words	Number of Decimal Places	Decimal
<i>eight hundredths</i>	two	0.08
<i>thirty-six thousandths</i>	three	0.036
<i>fifty-one millionths</i>	six	0.000051
<i>two and five thousandths</i>	three	2.005
<i>twelve and nine tenths</i>	one	12.9

Write the following as a decimal or a mixed decimal.

- seven tenths
- sixty-three hundredths
- two hundredths
- four tenths
- twelve and three tenths
- one and five hundredths
- forty-eight and nine tenths
- three hundred four thousandths
- fifteen ten-thousandths
- two hundred thirty and one tenth
- forty-seven thousandths
- five hundred-thousandths
- four and nine tenths
- twenty-two thousandths
- eighty-five hundredths
- nineteen thousandths
- forty-one hundredths
- two hundred six thousandths
- eight thousandths
- eleven and seven hundredths
- four and thirteen thousandths
- seventy-one ten-thousandths
- eight and two ten-thousandths
- nineteen millionths