

MA 090/Prealgebra
Decimals (Chapter 5)

5.1.1 Know the meaning of place value for a decimal number.

Millions	Hundred-thousands	Ten-thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred-thousandths	Millionths
1,000,000	100,000	10,000	1,000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1,000}$	$\frac{1}{10,000}$	$\frac{1}{100,000}$	$\frac{1}{1,000,000}$

Name the digit that has the given place value.

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|---------------|----------------|--------------------|
| 1) 135.296 | 2) 314.658 | 3) 15417.6832 |
| a. hundreds | a. tens | a. thousands |
| b. hundredths | b. tenths | b. thousandths |
| c. ones | c. thousandths | c. ten thousandths |

5.1.2 Write decimals in words.

- Step 1: Write the whole number part in words.
 Step 2: Write “and” for the decimal point.
 Step 3: Write the decimal part in words as though it were a whole number, followed by the place value of the last digit.

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|-----------|----------|------------|
| 4) 24.003 | 5) 238.4 | 6) 158.364 |
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5.1.3 Write decimals in standard form.

Note: When writing decimals in standard form make sure the last digit is in the correct place by inserting 0's if necessary.

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| 7) seventy-five and thirty thousandths | 8) Seven hundred three ten thousandths |
| 9) four hundred twenty and eight thousandths | 10) Twelve and four hundredths |