

4-7 Study Guide and Intervention***Percents and Decimals***

To write a percent as a decimal, divide the percent by 100 and remove the percent symbol. To write a decimal as a percent, multiply the decimal by 100 and add the percent symbol.

Example 1 Write 42.5% as a decimal.

$42.5\% = \frac{42.5}{100}$	Write the percent as a fraction.
$= \frac{42.5 \times 10}{100 \times 10}$	Multiply by 10 to remove the decimal in the numerator.
$= \frac{425}{1,000}$	Simplify.
$= 0.425$	Write the fraction as a decimal.

Example 2 Write 0.625 as a percent.

$0.625 = 062.5$	Multiply by 100.
$= 62.5\%$	Add the % symbol.

Exercises

Write each percent as a decimal.

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|-----------------------|-----------------------|
| 1. 6% 0.06 | 2. 28% 0.28 |
| 3. 81% 0.81 | 4. 84% 0.84 |
| 5. 35.5% 0.355 | 6. 12.5% 0.125 |
| 7. 14.2% 0.142 | 8. 11.1% 0.111 |

Write each decimal as a percent.

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|-----------------------|------------------------|
| 9. 0.47 47% | 10. 0.03 3% |
| 11. 0.075 7.5% | 12. 0.914 91.4% |