

Fractions, Decimals, Percents

Write each percent as a decimal.

To change a percent to a decimal, move the decimal point 2 places to the left. The decimal point in a whole number comes after the last digit in the number.

Examples: $2\% = 0.02$ $54\% = 0.54$ $1.3\% = 0.013$

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|----------------|--------------|---------------|
| 1) $90\% =$ | 2) $30\% =$ | 3) $113\% =$ |
| 4) $9\% =$ | 5) $65\% =$ | 6) $86\% =$ |
| 7) $1\% =$ | 8) 0.3% | 9) $15\% =$ |
| 10) $34.5\% =$ | 11) $12\% =$ | 12) $1.2\% =$ |

Write as percentages. Insert the percent symbol after your answer.

To change a decimal to a percent, move the decimal point 2 places to the right and attach the percent symbol to the answer.

Examples: $0.4 = 40\%$ $0.01 = 1\%$ $1.3 = 130\%$

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|--------------|-------------|--------------|
| 1) $0.45 =$ | 2) $0.05 =$ | 3) $1.25 =$ |
| 4) $0.9 =$ | 5) $0.92 =$ | 6) $0.013 =$ |
| 7) $0.125 =$ | 8) $0.87 =$ | 9) $0.02 =$ |
| 10) $1.0 =$ | 11) $2.4 =$ | 12) $0.7 =$ |

Write as fractions in simplest form.

To write a percent as a fraction in simplest form, divide by 100 and simplify the fraction by dividing numerator and denominator by the GCF. If the percent is a prime number, it will not reduce.

Examples: $22\% = \frac{22}{100} \div 2 = \frac{11}{50}$ $45\% = \frac{45}{100} \div 5 = \frac{9}{20}$ $7\% = \frac{7}{100}$

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|-------------------|-------------------|-------------------|
| 1) $25\% =$ _____ | 2) $70\% =$ _____ | 3) $93\% =$ _____ |
| 4) $58\% =$ _____ | 5) $50\% =$ _____ | 6) $63\% =$ _____ |

7) 5% = _____

8) 15% = _____

9) 20% = _____

10) 3% = _____

11) 18% = _____

12) 6% = _____

Write each fraction as a percent. Insert the percent symbol.

To write a fraction as a percent, multiply the fraction by 100 and simplify where possible. If the denominator is a factor of 100, you can write an equivalent fraction with a denominator of 100. The numerator is your percent.

Examples: $\frac{3}{4} \times 25 = \frac{75}{100} = 75\%$

$\frac{16}{20} \times 5 = \frac{80}{100} = 80\%$

$$\frac{9}{12} = \frac{\overset{3}{\cancel{9}}}{\underset{1}{\cancel{12}}} \times \frac{\overset{25}{\cancel{100}}}{1} = 75\%$$

cancel 12 and 100 by 4, then
cancel 9 and 3 by 3

1) $\frac{1}{2} =$

2) $\frac{2}{5} =$

3) $\frac{7}{10} =$

4) $\frac{19}{25} =$

5) $\frac{3}{8} =$

6) $2\frac{1}{10} =$

7) $\frac{15}{20} =$

8) $\frac{36}{50} =$

9) $\frac{67}{100} =$

10) $\frac{5}{8} =$

11) $\frac{9}{15} =$

12) $\frac{7}{35} =$