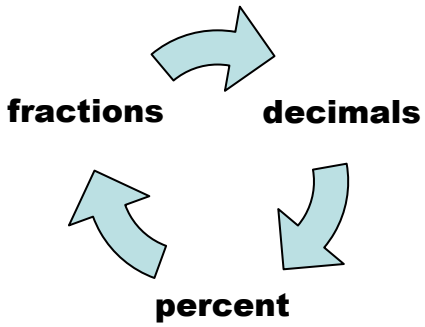
**Mathematics 9**

# Converting Fractions, Percents & Decimals

**Date:**




Create an example and explain your method for converting each possible case:

a) fraction to decimal

b) decimal to fraction

c) fraction to percentage

d) percent to fraction

e) decimal to percent

f) percent to decimal

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## Expressing a fraction as a decimal

$\frac{3}{4} = 0.75$

$\frac{7}{11} = 0.636363\ldots$

*Divide the numerator by the denominator.*

## Expressing a decimal as a percent

$0.08 = 0.08 \times 100\% = 8\%$

$0.345 = 0.345 \times 100\% = 34.5\%$

$6.7 = 6.7 \times 100\% = 670\%$

*Multiply by 100%.*

## Expressing a percent as a decimal

$68\% = 68 \div 100 = 0.68$

$128\% = 128 \div 100 = 1.28$

*Divide by 100*

## Expressing a decimal as a fraction

$0.18 = \frac{18}{100} = \frac{9}{50}$

$0.0124 = \frac{124}{10000} = \frac{31}{2500}$

$2.464 = \frac{2464}{1000} = \frac{308}{125}$

*Express as a fraction with denominator 10 or 100 or 1000 etc. so that the number of zeros in the denominator matches the number of digits to the **right** of the decimal point in the decimal number.*

*Next, reduce the fraction to lowest terms.*

## Finding the percent of a number

18% of 50 = 0.18 × 50 = 9

4.5% of 78 = 0.045 × 78 = 3.51

120% of 17 = 1.2 × 17 = 20.4

*Express percent as a decimal number and multiply by the number.*

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***Fill in the missing information in the chart.***

| Reduced Fraction | Decimal | Percent |
|---|---|---|
| | | 12% |
| | | 7% |
| | | 275% |
| | 0.38 | |
| | 0.057 | |
| $\frac{3}{8}$ | | |
| $\frac{9}{32}$ | | |
| | | $13\frac{1}{2}\%$ |
| | | 1.27% |
| | | $7\frac{1}{4}\%$ |
| | 0.005 | |
| | 1.2 | |
| | 3.075 | |
| $\frac{23}{27}$ | | |
| $\frac{19}{4}$ | | |
| $2\frac{10}{11}$ | | |
| $\frac{17}{10000}$ | | |