

<p>1) FRACTION TO DECIMAL Just divide the top of the fraction by the bottom.</p> <p><i>Solved examples:</i></p> $\frac{3}{4} = 0.75$ $\frac{7}{11} = 0.636363\dots$	<p>2) DECIMAL TO FRACTION Express as a fraction with denominator 10, 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.</p> <p><i>Solved examples:</i></p> $0.18 = \frac{18}{100} = \frac{9}{50}$ $0.0124 = \frac{124}{10000} = \frac{31}{2500}$ $2.464 = \frac{2464}{1000} = \frac{308}{125}$
<p>TRY – Convert each fraction to a decimal and round to two decimal places.</p> $4/9 = 0.44\bar{4} \approx 0.44$ $3/7 = 0.4286 \approx 0.43$	<p>TRY – Convert each decimal to a fraction.</p> $0.125 = \frac{125}{1000} \text{ GCF: } 125 \quad \frac{125 \div 125}{1000 \div 125} = \frac{1}{8}$ $3.50 = \frac{350}{100} \text{ OR } \frac{35}{10} \text{ GCF: } 5 \quad \frac{35 \div 5}{10 \div 5} = \frac{7}{2}$
<p>3) FRACTION TO PERCENT Convert to decimal, then multiply by 100. Add % symbol right to your answer.</p> <p><i>Solved examples:</i></p> $\frac{1}{2} = 0.5 \rightarrow 0.5 \times 100 = 50\%$ $\frac{3}{4} = 0.75 \rightarrow 0.75 \times 100 = 75\%$	<p>4) PERCENT TO FRACTION Write the percent over 100 and get rid of the % symbol. Reduce the fraction.</p> <p><i>Solved examples:</i></p> $25\% = \frac{25}{100} = \frac{1}{4}$ $125\% = \frac{125}{100} = \frac{5}{4}$
<p>TRY – Convert each fraction to a percentage.</p> $1/8 = 0.125 \rightarrow 0.125 \times 100 = 12.5\%$ $9/4 = 2.25 \rightarrow 2.25 \times 100 = 225\%$	<p>TRY – Convert each percentage to a fraction.</p> $100\% = \frac{100}{100} = 1$ $30\% = \frac{30}{100} = \frac{3}{10}$
<p>5) DECIMAL TO PERCENT Multiply by 100 and add % symbol right to your answer.</p> <p><i>Solved examples:</i></p> $0.08 = 0.08 \times 100\% = 8\%$ $0.345 = 0.345 \times 100\% = 34.5\%$ $6.7 = 6.7 \times 100\% = 670\%$	<p>6) PERCENT TO DECIMAL Divide by 100 and get rid of % symbol.</p> <p><i>Solved examples:</i></p> $68\% = 68 \div 100 = 0.68$ $128\% = 128 \div 100 = 1.28$
<p>TRY – Convert each decimal to a percentage.</p> $1.00 = 1.00 \times 100\% = 100\%$ $0.125 = 0.125 \times 100\% = 12.5\%$	<p>TRY – Convert each percentage to a decimal.</p> $200\% = 200 \div 100 = 2$ $0.05\% = 0.05 \div 100 = 0.0005$

Fill in the missing information in the chart.

Reduced Fraction	Decimal	Percent
$\frac{9}{100}$	$9 \div 100 = 0.09$	9%
GCF: 25 $\frac{125}{100} = \frac{5}{4}$ or $1\frac{1}{4}$	$125 \div 100 = 1.25$	125%
GCF: 4 $\frac{28}{100} = \frac{7}{25}$	0.28	$0.28 \times 100\% = 28\%$
GCF: 25 $\frac{25}{1000} = \frac{1}{40}$	0.025	$0.025 \times 100\% = 2.5\%$
$\frac{5}{8}$	$5 \div 8 = 0.625$	$0.625 \times 100\% = 62.5\%$
$\frac{1}{3}$	$1 \div 3 = 0.33$	$0.33 \times 100\% = 33\%$
GCF: 5 $\frac{55}{1000} = \frac{11}{200}$	$5.5 \div 100 = 0.055$	$5\frac{1}{2}\%$ or 5.5%
GCF: 125 $\frac{125}{1000} = \frac{1}{8}$	$1.25 \div 100 = 0.0125$	1.25%
$\frac{2}{1000} = \frac{1}{500}$	0.002	$0.002 \times 100\% = 0.2\%$
GCF: 25 $\frac{1075}{1000} = \frac{43}{40}$	1.075	$1.075 \times 100\% = 107.5\%$
$\frac{12}{13}$	$12 \div 13 = 0.92$	92%
$5\frac{1}{3} = \frac{16}{3}$	$16 \div 3 = 5.33$	533%

THINKING

The book value of 1000 stocks is \$18,000. The market value of the investment reaches \$22,500 in a year.

a) What percentage of the original investment is the profit?

Original Investment \$18,000.

Current value of original investment \$22,500.

The difference is either loss (if -ve), profit (if +ve)

Step 1 $22,500 - 18,000 = \$4,500$. Step 2 $\frac{4500}{18000} = 0.25 = 25\%$

b) How many stocks does the investor need to sell that would be equivalent to the profit amount?

Purchase Price = $18000 \div 1000 = \$18 / 1$ share

Current Price = $22,500 \div 1000 = \$22.5 / 1$ share

number of stocks = $\frac{4500}{22.5} = 200$ stocks.

\therefore The investor needs to sell 200 stocks.

Book Value:

Total cost of a certain number of stocks when purchased.

Market Value:

Total cost of a certain number of stocks when sold.