

4.5/4.6 Hw-

Tree height $\left\{ \begin{array}{l} 38 \text{ feet} \\ 4 \text{ feet} \end{array} \right.$

$$\frac{228\% \text{ Treeht. } 4}{4} = \frac{38 \text{ feet} \rightarrow \text{Tree height}}{4}$$

$$57 = \text{Tree height}$$

$$38 \cdot 6 = \text{Tree height} \cdot 4$$

$$228 = \text{Tree height} \cdot 4$$

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$$\frac{42 = 7 \cdot x}{7} \quad x > 6 \quad 6$$

$$6 = x$$

CHPT. 4 Extra Credit
Chpt. 4 Review, All the problems
8 points

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5.1 Percents, Decimals, Fractions

Per cent out of 100	82%	$\frac{82}{100}$	$\frac{41}{50}$
			$\frac{2}{5}$
			$\frac{3}{20}$
			$\frac{3}{2}$

$$\frac{47}{100} = 47\%$$

$$\frac{75}{100} = 75\%$$

$$40\% = \frac{40}{100} = \frac{4}{10} = \frac{2}{5}$$

$$15\% = \frac{15}{100} = \frac{3}{20}$$

$$37\% = \frac{37}{100}$$

$$150\% = \frac{150}{100} = \frac{3}{2} = 1\frac{1}{2}$$

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$$100\% = 1$$

$$342\% = \frac{342}{100}$$

$$3\frac{42}{100} = 3\frac{21}{50}$$

$$\frac{42}{100} \div 2 = \frac{21}{50}$$

$$2\overline{)42} \quad 2\overline{)100}$$

$$\begin{array}{r} 21 \\ 4 \downarrow \\ \hline 2 \\ 0 \end{array}$$

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Change % to decimal

$$45\% = \frac{45}{100} = .45$$

$$80\% = \frac{80}{100} = .80 = .8$$

$$15\% = \frac{15}{100} = .15$$

$$5.6\% = \frac{5 \text{ and } 6}{100} = \frac{56}{1000} = .056$$

~~$\frac{56}{100} = 56\%$~~

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$$4.86\% = \frac{4.86 \times 100}{100 \times 100} = \frac{486}{10,000} = .0486$$

$$.6\% = \frac{.6 \times 100}{100 \times 100} = \frac{6}{10,000} = .006 \quad .9\%$$

$$1\% = \frac{1}{100} = .01 \quad 5\%$$

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Change decimal numbers to percents

$.15 = 15\%$ $.53 \rightarrow .15$
 $.35 = 35\%$ $.03 = 3\%$
 $.4 = \frac{4 \times 10}{10 \times 10} = \frac{40}{100} = 40\%$
 $.03 = \frac{3}{100} = 3\%$
 $5.77 = 577\%$ $5 \frac{77}{100} \rightarrow 577\%$
 $.003 = \frac{3 \div 10}{1000 \div 10} = \frac{3}{100} = .3\%$ $.003 = .3\%$

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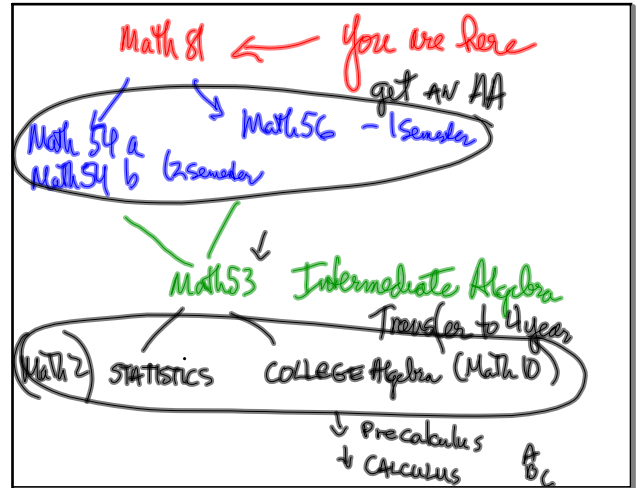
Change percents to fractions

$82\% = \frac{82 \div 2}{100 \div 2} = \frac{41}{50}$
 $6.5\% = \frac{6.5 \times 10}{100 \times 10} = \frac{65 \times 2}{1000 \times 2} = \frac{13}{200}$
 $42 \frac{1}{2}\% = \frac{85}{2} \%$
 $\frac{85}{2} \%$ $\frac{85}{2} \cdot \frac{1}{100} = \frac{85 \times 5}{200 \times 5} = \frac{17}{40}$
 42.5% $\frac{425 \div 5}{100 \div 5} = \frac{425 \times 25}{1000 \times 25} = \frac{17}{40}$



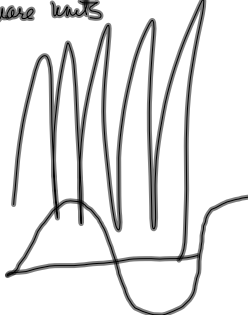
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$42 \frac{1}{2}\%$ $\left(\frac{85}{2}\right)\%$ $\frac{85 \left(\frac{2}{1}\right)}{100 \left(\frac{2}{1}\right)} = \frac{85}{200}$
 $\frac{85}{2} \cdot \frac{1}{100}$
 $100 \left(\frac{1}{100}\right)$

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9  90 square units



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Change fractions into Percents

$\frac{3(25)}{4(25)} \frac{75}{100} = 75\%$
 $3 = 3.000000$
 $\frac{3}{8} = \frac{375}{1000}$ $\frac{375}{1000} \div 10 = \frac{375}{100000} \div 100 = 375\%$
 $375 = 375\%$

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$\frac{7}{12} \rightarrow$

$$\begin{array}{r} .58\overline{33} \\ 12 \overline{) 7.0000} \\ \underline{-60} \\ 100 \\ \underline{-96} \\ 40 \\ \underline{-36} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$\frac{12}{5} = \frac{58.33}{60}$

$$\frac{58.33 \cancel{100}}{10,000 \cancel{100}} = \frac{58.33}{100} = 58.33\%$$

(Note: A diagonal calculation is also shown on the left side of the page, involving 100, 58.33, 500, 833, 330, 330, 500, 500.)

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$2\frac{1}{2} = 2.5 = \frac{25}{10} = \frac{25 \times 10}{10 \times 10} = \frac{250}{100}$

$\rightarrow = 250\%$

① 200%
 50%

 250%

② $2\frac{1}{2} = \frac{5 \cdot 50}{2 \cdot 50} = \frac{250}{100} = 250\%$

④ $2.5 \times 100 = 250\%$

⑤ $\frac{2.5 \times 100}{1 \times 100} = \frac{250}{100} = 250\%$

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