Name	
1101110	





Accelerated Percents Take Home and Check

You must show your work for each problem. You may use a calculator for all problems, **except** the conversions.

1) What percent of 60 is 15.68?	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
2) What number is 12.68% of 72?	$ \frac{2}{72} = \frac{12.68}{100} $ $ \frac{100}{100} \times = 912.96 \boxed{X = 9.13} $
3) 9.35 is what percent of 10.5?	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
4) What number is .5% of 8?	
5) Granite, a stone found in New Hampshire and Vermont, is 0.8% water. How many pounds of water are there in 3,000 lbs. f granite?	$\frac{5}{3000} \times \frac{8}{100}$ $\frac{100}{100} \times = 2400$ 100 $X = 24 \text{ lbs}$

6)
$$\frac{\chi}{20852000} = \frac{9.4}{100}$$

 $100\chi = 196,008,800$
 $\chi = 1,960,088$ peo

7) Write
$$\frac{33}{40}$$
 as a percent. Round to the nearest hundredth if necessary.

8) .45% = .0045 =
$$\frac{45}{10,000} = \frac{9}{2,000}$$

$$10) .7\% = .007 = \frac{7}{1000}$$

11) Write
$$4\frac{1}{8}$$
% as a decimal and fraction in lowest terms.

11)
$$\frac{1}{8} = .125$$

 $4.125\% = .404125 = \frac{4125}{100,000} = \frac{33}{800}$

12)
$$\frac{1}{6}$$
 petunias = .16 | Least togreat:
195 marigolds = 0.195 | 1) petunias
1000 | 2) pansies
18 pansies = .18 | 3) marigolds
2

13)
$$\frac{999}{x} = \frac{175}{100}$$
 $\frac{175}{175} \times = \frac{99900}{175}$
 $175 \times = \frac{175}{175}$
 $175 \times = \frac{175}{175}$
 $175 \times = \frac{175}{175}$

Wholesale price

15)
$$\frac{430}{x} = \frac{130}{100}$$

$$\frac{43000 = 130}{130} \times \frac{130}{130}$$

$$\frac{130}{x^{3}330.77} = \text{Wholesale price}$$

$$\frac{430 - 330.77}{330.77} = \frac{399.23 \text{ markup amt.}}{399.23 \text{ markup amt.}}$$

$$\frac{C}{O} = \frac{220 - 150 = 70}{150} = \frac{70}{150} = \frac{70}{150}$$

$$.4666 = \boxed{46.67\%}$$

$$\frac{17)}{0} = \frac{20000 - 17500 = 2500}{20000}$$

$$\frac{2500}{20000} = .125 = 12.5\%$$

18)
$$\frac{165}{x} = \frac{90}{100}$$
 $\frac{10\% - discount}{30}$ $\frac{90\% - what}{90\% - what} = \frac{90\% - what}{90\% - what} = \frac{9$

19) Tip Tax
$$\frac{X}{23} = \frac{18}{100}$$

$$\frac{X}{23} = \frac{6}{100}$$

$$\frac{100}{100} \times = \frac{414}{100}$$

$$\frac{100}{100} \times = \frac{138}{100}$$

21)
$$I = PRT$$

 $1102.50 = (4500)(.07)(t)$
 $1102.50 = 315t$
 315
 $t = 3.5 yrs$

$$\frac{23)}{0} = \frac{120-42 = 48}{120}$$

$$\frac{48}{120} = .4 = 40\%$$

24)
$$\frac{10.50}{x} = \frac{70}{100}$$
 $\frac{70x}{70} = \frac{1050}{70}$
 $\frac{70}{70} = \frac{1050}{70}$

$$\begin{vmatrix} 36 - 34.5 \\ \hline 34.5 \end{vmatrix} = \begin{vmatrix} 1.5 \\ \hline 34.5 \\ \hline .0435 = \begin{vmatrix} 4.35\% \\ error \end{vmatrix}$$