## Tier C 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?	1) $15.68 = \frac{x}{60}$ 60 = 100 60x = 15.68 $x = 26.13%$
2) What number is .5 % of 8?	2) $\frac{x}{8} = \frac{.5}{100}$ $\frac{100x = 4}{x = .04}$
3) 12 is what percent of 85?	3) $\frac{12}{85} = \frac{x}{100}$ $\frac{85}{85} \times = 1200$ $\frac{85}{85} \times = \frac{14.12}{8}$
4) 9 is 45% of what number?	4) $\frac{9}{x} = \frac{45}{100}$ $\frac{48}{x} = \frac{900}{45}$ $\frac{45}{x} = \frac{45}{20}$
5) Write $4\frac{1}{8}\%$ as a decimal and fraction in lowest terms.	5) $4\frac{1}{8}\% = 4.125\% =$ $.04125 = 4125 = 165 =$ $100000  4000$

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

$$(7) \quad \frac{33}{40} = .825 = \boxed{82.5\%}$$

(i) 
$$35\% = .35 = \frac{35}{100} = \frac{7}{20}$$

$$0) \quad 56\% = .56 = \frac{56}{100} = \frac{14}{25}$$

(2) 
$$273-95 = 178$$
 did not volunteer  $\frac{178}{273} = .652 = [65.28]$ 

$$\frac{325}{8125} = \frac{x}{100}$$

$$\frac{8125}{8125} \times = 32500$$

$$\frac{8125}{8125} \times = 4\%$$

14) 
$$\frac{X}{35900} = \frac{43}{100}$$
  
 $100X = 1,543,700$   
 $X = 15,437$  or angutans

15) 
$$40500 - 38250 = 2250$$

$$\frac{C}{0} \frac{2250}{40500} = .0555 = 5.55\% \sqrt{($$

19) Tip = 
$$Tax = \frac{x}{23} = \frac{18}{100} = \frac{x}{23} = \frac{6}{100} = \frac{23.00}{4.14}$$

$$\frac{1000 \times = 414}{100} = \frac{100 \times = 136}{100} = \frac{1.38}{100}$$

$$x = 4.14 = \frac{1.38}{100} = \frac{1.38}{100}$$
Total

20) 
$$365 - 35 = 330$$
 days Not rain  $\frac{330}{365} = .9041 = \boxed{90.41\%}$ 

21) 
$$I = PRT$$
  
 $1102.50 = (4500)(.07)(t)$   
 $1102.50 = 315 t$   
 $315$   
 $t = 3.5 yrs$ 

22) 
$$I = PRT$$

$$(20000)(.08)(5)$$

$$I = 8000$$

$$20000 + 8000 = 28000$$

23) 
$$\frac{430}{x} = \frac{130}{100}$$
 $\frac{130}{130} \times = \frac{43000}{130}$ 
 $130$ 
 $\chi = \frac{8}{330.77}$ 

Wholesale price

 $130 \times 130 \times 130$ 
 $130 \times 130 \times 1$ 

24) 
$$I = PRT$$
  
= (2300)(.065)(5.5)  
=  $822.25$ 

25) 
$$1694-1400 = {}^{8}294$$

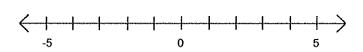
Interest

$$I = PRT$$

$$294 = (1400)(R)(3)$$

$$\frac{294}{4200} = \frac{4200}{4200}r = .07 = \boxed{7\%}$$

- 26)Place the following numbers on the number line below: (Put the letter on the number line):
  - A:  $-\frac{3}{4}$
  - B: 0
  - C: 0.75
  - D: -1.8
  - E: -3.5



26)

