B: Fractions, Decimals & Percents Continued

Examples:

1. Convert each to a Fraction & Decimal.

a) 340%

$$= \frac{340}{100} \quad \begin{matrix} \div 20 \\ \div 20 \end{matrix}$$

$$= \boxed{\frac{17}{5}}$$

$$\boxed{= 3.4}$$

b) 0.49%

$$= \frac{0.49}{100}$$

$$= \frac{49}{10000}$$

$$= 0.0049$$

c) 21.1%

$$= \frac{22.2}{100}$$

$$= \frac{222}{1000}$$

$$= \frac{111}{500}$$

$$= 0.222$$

2. A choc. bar contains 22g of sugar. In one day you consume 56g of sugar including the bar. What percent of is the total sugar consumption does the ~~you~~ represent to the nearest hundredth?

$$= \frac{22g}{56g}$$

$$= 0.3928571 \times 100\%$$

$$\boxed{= 39.29\%}$$

3. In a diamond (32g) there is 1.5g of quartzite. What percent of the gold is quartzite to the nearest tenth?

$$= \frac{1.5g}{32g}$$

$$= 0.046875 \times 100\%$$

$$\boxed{= 4.7\%}$$

4. Copy and Complete the following table.

Vehicle	Number	Percent of Total (Hundredth)	Fraction of Total		Decimal Equivalent (Hundredth)
Car	154	53.10 %	$\frac{154}{290}$	$\frac{77}{145}$	0.53
Truck	133	45.86 %	$\frac{133}{290}$		0.46
SUV	3	1.03 %	$\frac{3}{290}$		0.01

TOTAL = 154 + 133 + 3

= 290

5. Jim's resting heart rate is 60 beats per minute. Walking his heart rate is 70 beats per minute. Running " " " " 85 " " ". Express each heart rate compared to the resting as a percent to the nearest hundredth.

Walking

$= \frac{70}{60}$

$= 1.1\overline{6}$ ×100

$= 116.\overline{6}$ %

Running

$= \frac{85}{60}$

$= 1.41\overline{6}$

$= 141.\overline{6}$ %

Assignment $\frac{1}{5}$ 136· #. 10. – 21