Fractions to Decimals to Percents Pretest 8:**(all fractions are to be in lowest terms)**

Name: Date:

A. Fill in the blanks below with the correct answer.(½ mark each, total 9 marks

Fractions	Decimals	Percents
8 4/5	8.8	880 %
$\frac{35}{1000} = \frac{7}{200}$	0.035	3.5 %
$\frac{3}{100}$	0.03	3 %
2 1/5	2.2	220 %
2/3	$0.\overline{6}$	$66.\overline{6}$ %
$\frac{15}{100,000} = \frac{3}{20,000}$	0.00015	0.015 %
$\frac{175}{10,000}$ $\frac{7}{2000}$	0.0175	1.75 %
$\frac{95}{1000}$	0.095	9.5 %
$\frac{24}{100} = \frac{6}{25}$	0.24	24 %

B. Answer the following questions by providing the answer, and show <u>all</u> work.

a. What is 45 % of the following?(1 mark each, total 4 marks)

i) $ 40 ii) $ 1500 iii) $ 11000 iv) $ 120

40X0.45 $18

1500X0.45 $675

11000X0.45 $4,950

120X0.45 $54

b. i) If Nolan went to the music store to buy some new band equipment that were 75% off their original price, what did he pay for each, without tax?(2 marks)

75% off means you pay 25%.

-guitar regular price is $295

295X0.25 =$74

-drums regular price is $350

350X0.25 = $88

$162

ii)If he was to pay 12 % sales tax on both items, how much did he pay in total?(2 marks)

$162X0.12 = $18 tax

Total 162 + 18 = $180.00 Total with tax

c. If an iMax movie theatre had 3000 seats in total, but was only 25 % full, how many seats were empty? (2 marks)

25% full means 75% empty

3000×0.75

$= \$2250$ empty.

d. Kamloops held a Backstreet Boys concert that sold 16000 tickets. This many tickets sold only filled the stadium 80% of full capacity.

i) How many seats are there in total if a concert was sold out?(2 marks)

$? \times 0.8 = 16000$

full concert

backwards $\rightarrow$ $16000 \div 0.8 = 20{,}000$ full concert

ii) How many seats were not filled at this concert?(1 mark)

(total seats) (sold)

$20{,}000 - 16000 = 4{,}000$ seats not filled.

e. If you went shopping for clothing and found pants for $120, a shirt for $80 dollars, and a new belt for $45...all of these prices were regular selling price; however, these items were amazingly 20% off.

$\Rightarrow$ 20% off you pay at 80

i) How much were the total items on sale?(2 marks)

$\$120 + \$80 + \$45 = \$245 \times 0.8$

$= \$196$ (80% of full price)

ii) How much would the sales tax of 12% be?(1 mark)

$\$196 \times 0.12 = \boxed{\$24}$

iii) What is the total price you would pay for all the sale items with tax?

$\boxed{\$196 + \$24 = \$220}$

f. You ate 25% of the cookies that were in the box. If there were 480 cookies in total, how many are left? (2 marks)

Ate 25% means you did not 75%.

$480 \times 0.75 = 360$ cookies

g. Your parents bought you a new car of choice that was regular $46,500, but your parents paid only $15,500 when on sale. What percent off was the car?(2 marks)

$\frac{15{,}500}{46{,}500} = 33.\overline{3}\%$

you paid this percent

$100 - 33.\overline{3}\% = 66.66$

$= 66.7\%$