

Quiz on Fractions to Decimals to Percents: (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
1 3/4	1.75	175%
$\frac{125}{1000} = \frac{1}{8}$	0.125	12.5%
$\frac{375}{100}$	3.75	375%
2 4/5	2.8	280%
1/3	0.33	33.33%
$\frac{1}{1000}$	0.001	0.1%
$\frac{35}{1000}$	0.035	3.5%
$\frac{95}{100}$	0.95	95%
$\frac{8}{100}$	0.08	8%

B. Answer the following questions by providing the answer, and show all work.

a. What is 30 % of the following? (1 mark each, total 4 marks)

i) \$ 400

$$400 \times 0.3 = 120$$

ii) \$ 150

$$150 \times 0.3 = 45$$

iii) \$ 110

$$110 \times 0.3 = 33$$

iv) \$ 12

$$12 \times 0.3 = 3.6$$

b. i) If Nolan went to the music store to buy some new band equipment that were 40% off their original price, what did he pay for each, without tax? (2 marks)

-guitar regular price is \$495

40% off means you buy at 60% (60%)

$$495 \times 0.6 = 297 \text{ or } 495 \times \frac{60}{100} = 297$$

$$495 - 198 = 297 \text{ (answer)}$$

-drums regular price is \$650

$$650 \times 0.6 = 390 \text{ or } 650 \times \frac{60}{100} = 390$$

$$650 - 260 = 390$$

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

$$687 \times 0.12 = 82.44 \text{ (tax)}$$

$$687 + 82.44 = 769.44 \text{ total}$$

$$769.44$$

$$687 \times 1.12 = 769.44$$

- c. If a movie theatre had 550 seats in total, but was only 60% full, how many seats were empty? (2 marks)

60% full
40% empty

$$\frac{40}{100} = \frac{?}{550}$$

$$40 \times 550 \div 100 = 220$$

220 empty seats

- d. Kamloops held a Backstreet Boys concert had 1820 fans attending. The stadium was only filled 70% of full capacity.

- i) How many seats are available if a concert is 100% full? (2 marks)

$$\frac{70}{100} = \frac{1820}{?}$$

$$100 \times 1820 \div 70 = 2600$$

2600 seats if 100% full

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

$$2600 - 1820 = 780$$

(100% full) (70% full)

- e. If you went shopping for some clothing and found some pants for \$70, a shirt for \$25 dollars, and a new belt for \$15. All of the items were 25% off.

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

$$70 + 25 + 15 = 110 \times 0.25 = 27.50 \text{ off}$$

$$110 - 27.50 = 82.50$$

- ii) How much was the grand total with sales tax at 12%? (1 mark)

$$82.50 \times 1.12 = 92.40 \text{ with tax.}$$

- f. You ate 25% of the cookies that were in the box. If there were 70 cookies in total, how many are left? (2 marks)

$$\frac{25}{100} = \frac{?}{70}$$

$$(25 \times 70) \div 100 = 17.5$$

$$70 - 17.5 = 52.5$$

Ans. 52.5 left

- g. Your parents bought you a new car of choice that was regular \$35,000, but your parents paid only \$12,250 when on sale. What percent off was the car? (2 marks)

$$\frac{12,250}{35,000} = \frac{?}{100}$$

35 you paid 35% of the full price, so it's 65% off