

Quiz on Fractions to Decimals to Percents: (show all work!)

Name:

Date:

A. Fill in the blanks below with the correct answer. (½ mark each, total 7 marks)

Fractions (lowest terms)	Decimals	Percents
$7 \frac{3}{4}$	7.75	775%
$3 \frac{3}{4}$	3.75	375%
$5 \frac{755}{1000}$ or $5 \frac{151}{200}$ or $5 \frac{151}{200}$	5.755	575.5%
$\frac{1}{3}$	$0.\overline{3}$	$33.\overline{3}\%$
$\frac{1}{1000}$	0.001	0.1%
$\frac{35}{1000} = \frac{7}{200}$	0.035	3.5%
$\frac{5}{10000} = \frac{1}{2000}$	0.0005	0.05%

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

a. Devin would receive \$50 allowance with 25% of this deposited into his bank account weekly.

i) After he made a deposit, how much of his \$50 is available to spend? (2 marks)

$$50 \times 0.25 = \$12.50$$

$$50 - 12.5 = \$37.50 \text{ left for spending.}$$

ii) In 5 weeks, how much money was deposited into his bank account? (2 marks)

$$12.50 \times 5 = \$62.50 \text{ in 5 weeks}$$

b. i) Spencer went to the electronics store to buy some gaming hardware that were 25% off their original price, what did he pay for each, without tax? (2 marks)

-Xbox One X regular \$600

$$600 \times 0.25 = 150 \text{ off}$$

$$600 - 150 = \$450 \text{ sale price}$$

-Samsung 4K TV regular \$560

$$560 \times 0.25 = 140 \text{ off}$$

$$560 - 140 = \$420.00$$

ii) If he was to pay 12% sales tax on both items, how much did he pay in total? (1 mark)

$$450 + 420 = 870 \times 1.12 = \$974.40 \text{ sale price + 12\% tax.}$$

c. i) Ava worked at a theatre with a total of 800 seats. If only 60% of the seats were full, how many tickets sold? (2 marks)

$$800 \times 0.6 = 480 \text{ seats filled}$$

ii) If you charged \$25 per ticket, how much money did the theatre make? (2 marks)

$$480 \times 25 = \$12,000$$

d. Kamloops and Ms. Roy hosted a Backstreet Boys concert selling 4900 tickets. The stadium was only filled ~~90~~ 80% of full capacity.

i) How many seats in total are available if a concert sells 100% of the tickets? (2 marks)

$$\frac{4900}{x} = \frac{80}{100} \quad (4900 \times 100) \div 80 = \underline{\underline{6125 \text{ seats}}}$$

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

$$6125 - 4900 = 1225 \text{ unfilled seats}$$

iii) If each ticket sold costs \$80, how much money was made hosting this event? (1 mark)

$$80 \times 4900 = \$392,000$$

e. Matteo went shopping for "boxing" equipment at the Punch-Out Store. Decent gloves costed \$90, new boxing shorts were \$30 dollars, and a heavy punching bag was \$200. Today, thank heavens, all of his chosen items were 25% off their regular prices.

i) How much did it cost for the items on sale, not counting tax? (2 marks)

$$90 + 30 + 200 = 320 \text{ (regular price)}$$

$$320 \times 0.25 = 80 \text{ off}$$

$$320 - 80 = 240 \text{ / total sale price}$$

ii) How much money did he save from the sale, not counting tax? (1 mark)

Saved \$80 ←

What was the grand total including sales tax at 12%? (2 marks)

$$240 \times 0.12 = 28.80 \text{ total tax}$$

$$240 + 28.80 = \underline{\underline{268.80}} \text{ total price with tax}$$

f. Jaelyn had a massive 120 pack of small chocolate bars and ate 6 of them.

i) What percent of the bag did she eat? (1 mark)

$$\frac{6}{120} = 0.05 \times 100 = 5\%$$

ii) If she sold the remaining chocolates to friends for 30 cents each, how much money did she make in total? (2 marks)

$$114 \times 0.30 = \$34.20$$

g. There was a Harley motor bike that Mr. C wanted that costed \$35,000. It didn't sell quickly, so after several months the price dropped by \$7,000.

i) What percent did the Motor bikes price drop? (2 marks)

$$\frac{7,000}{35,000} = 0.20 \times 100 = 20\%$$

ii) If 6% tax is charged on the purchase, how much is the tax? (1 mark)

$$28,000 \times 0.06 = \$1680 \text{ (6% tax)}$$

h. Devon insanely paid \$ 627.20 for a mystery box including tax. So, how much did this cost before taxes? (2 marks)

$$627.20 \div 1.12 = \$560 \text{ original price}$$