

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

Pretest 2

Name:

Date:

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

Fractions(lowest terms)	Decimals	Percents
$7 \frac{1}{4}$	7.25	725%
$\frac{375}{1000} = \frac{3}{8}$	0.375	37.5%
$1 \frac{755}{1000} = 1 \frac{151}{200}$	1.755	175.5%
$\frac{2}{3}$	$0.\overline{6}$	$66.\overline{6}\%$
$\frac{1}{10,000}$	0.0001	0.01%
$\frac{35}{1000} = \frac{7}{200}$	0.0035	0.35%
$\frac{5}{100} = \frac{1}{20}$	0.05	5%

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

a. Devin would receive \$30 allowance with 35% of this deposited into his bank account weekly.

i) After he made a deposit, how much of his \$30 is available to spend?(2 marks)

$$30 \times 0.35 = 10.50 \text{ (Deposited)} \quad 30 - 10.50 = \$19.50 \text{ to spend}$$

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

$$10.50 \times 5 = \$52.50 \text{ Deposited in 5 weeks.}$$

b. i) Spencer went to the electronics store to buy some gaming hardware that were 20% off their original price, what did he pay for each, without tax?(2 marks)

-Nintendo Switch regular \$450

$$450 \times 0.2 = 90$$

$$450 - 90 = \$360$$

-Samsung 4K TV regular \$560

$$560 \times 0.2 = 112$$

$$560 - 112 = \$448$$

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

$$808$$

(subtotal)

$$808 \times 1.12 = \$904.96$$

(tax & subtotal)

$$808 \times 0.12 = \$96.96$$

c. i) Alexandra worked at a theatre with a total of 750 seats. If only 60% of the seats were full, how many tickets sold? (2 marks)

$$\frac{?}{750} = \frac{60}{100}$$

$$750 \times 60 \div 100 = 450 \text{ tickets sold}$$

ii) If you charged \$15 per ticket, how much money did the theatre make?(2 marks)

$$450 \times 15 = \$6750.00$$

d. Kamloops hosted an Abba concert and sold 3900 tickets. The stadium was only filled 65% of full capacity. (i)

$$\frac{3900}{?} = \frac{65}{100}$$

$$3900 \times 100 \div 65 = 6000 \text{ seats available if } 100\% \text{ sold.}$$

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

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

6000 (total seats) $3900 = 2100$ seats are empty.

iii) If each ticket sold costs \$75, how much money was made hosting this event? (1 mark)

$3900 \times 75 = \$292,500$

e. Maloney went shopping for "waterboy" equipment at the Aqua Store. A 10 gallon Camel Back regularly costs \$90, a new carbon filter regularly costs \$30 dollars, and a new water hose regularly costs \$150. 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)

$90 + 30 + 150 = 270$ (subtotal) $270 - 67.50 = 202.50$ (sale price)
 $270 \times 0.25 = \$67.50$ off

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

$270 - 202.50 = \$67.50$ was saved.

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

$\$202.50 \times 0.12 = \24.30 $202.50 \times 1.12 = \$226.80$ (grand total) (sale price with tax)

f. Ms. Roy had a massive 500 pack of skittles and ate 90 of them.

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

$\frac{90}{500} = \frac{?}{100}$ $90 \times 100 \div 500 = 18$ She ate 18% of the bag.

ii) If she sold the remaining skittles to friends for 5 cents each, how much money did she make in total? (2 marks)

$410 \times 0.05 = \$20.50$

g. There was a house Nolan wanted that was originally listed for \$15,000,000. It didn't sell, so after 2 years the price dropped to \$5,250,000.

i) What percent did the house drop in price? (2 marks)

$\frac{5250}{15000} = \frac{?}{100}$ $5250 \times 100 \div 15000 = 35\%$ $100 - 35 = 65\%$ (circled) price drop is the percent paid.

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

$5,250,000 \times 0.06 = \$315,000$ tax.

h. Nicky went shopping and paid a total of 257.60 including tax for a massive tub of candy. If tax is 12 %, how of this total was tax? (2 marks)

$257.60 \div 1.12 = 230$ subtotal price.
 $257.60 - 230 = \$27.60$ tax