KEY

Fractions to Decimals to Percents Pre_final Practice Quiz: **(show all work!)**

Name: Date:

A. Fill in the blanks below with the correct answer.(1 mark each, total 14 marks)

Fractions	Decimals	Percents
5 3/4	5.75	575%
$\frac{675}{1000}$ or $\frac{135}{200}$ or $\frac{27}{40}$	0.675	67.5%
$1\frac{55}{1000}$	1.055	105.5 %
2/5	0.4	40%
$\frac{1}{10}$	0.1	10%
$\frac{75}{10000}$ or $\frac{15}{2000}$ or $\frac{3}{400}$	0.0075	0.75 %
$\frac{5}{10}$ or $\frac{1}{2}$	0.5	50%

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

a. Maloney's "Waterboy" business generates $1500 weekly with 30% of the money deposited into Mr. C's bank account.

i) Each week after he made a deposit into Mr.C's account, how much money was available for Maloney to spend?(2 marks)

$1500 \times 0.3 = \$450$ deposited

$1500 - 450 = \$1050$ left to spend.

ii) In 7 weeks time, what was the total amount of money deposited into Mr. C's bank account?(1 marks)

450 per week times 7 weeks

$450 \times 7 = \$3150.00$ total deposited in 7 weeks.

b. Paige is part of a hiking club that has a total of 75 members. If 24 members are female, what percent of the members are male?(2 marks)

75-24 =51 males

75= total members.
24= female "
51= males.

$\frac{51 \text{ (males)}}{75 \text{ (total)}} = 0.68 \times 100 = 68\%$ males

c. Breanne went to the electronics store to buy some gaming stuff since everything was 15% off.

i) What was the sale price of each item not including tax?(2 marks)

15% off

-Nintendo 2DS for $200

$200 \times 0.15 = 30$ $\quad$ $200 - 30 = \$170.00$ sale price

-Super Mario Run game for $40

$40 \times 0.15 = 6$ $\quad$ $40 - 6 = \$34.00$ sale price.

ii)If she was to pay 12 % sales tax, what was the grand total she paid for both items including tax? (1 mark)

$$\begin{array}{r} 170 \\ +\,34 \\ \hline 204.00 \end{array}$$

$204 \times 1.12 = \boxed{\$228.48}$

price plus sales tax

d. Alexandra received 86 out of 120 on a test.

i)What percent did she get on this test?(2 marks)

$\frac{86}{120} = 0.71\overline{6} \times 100 = 71.\overline{6}\,\%$ or $72\,\%$

ii) If a C+ is 67-72% , B is 73-85% and A is 86-100%, what letter grade did she get on this test?(1 mark)

C+ on test. 72% (67-72 C+)

e. Mr. C's grade 9 All Night Awake had 96 grade 9s participating in the event, which was 40% of Brock's total number of grade 9 students.

i) What is the total number of grade 9 students who go to Brock?(2 marks) (2 ways)

96 ÷ 0.40 (decimal form of 40% = 240 students)

(2) $\frac{96}{\text{total students}} = \frac{40}{100}$ Cross multiply $96 \times 100 \div 40 = 240$ students

ii) How many grade 9 student did not attend the event?(1 mark)

$240 - 96 = 144$

f. Chaz bought a massive 400 pack of sour candies and ate 75 of them.

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

$\frac{75}{400} = 0.1875 = \boxed{18.75\,\%}$

ii) If he sold the remaining smarties to friends for 3 cents each, how much money would he make in total? (1 mark)

$400 - 75 = 325 \times 0.03 = \boxed{\$9.75}$

g. Mr. Breen went shopping and paid a total of $ 423.36 including 12% tax for a massive box full of Mr. C bobble head figures that he sold at school.

What was the total price for this box of toys, not including the tax?(1 mark)

423.36 (total + tax)

Total − tax = 423.36 ÷ 1.12 = $378.00 (toys without tax)

ii) How much did he pay in tax?(1 mark)

423.36 − 378 = $45.36 tax or 378 × 0.12 = $45.36

h. Put the following 3 numbers: ¾ , 76 %, and 0.7 into order from least to greatest value into the blanks below. *Clearly show the work involved that was used to solve this problem.* Here are the numbers.

(work space)(3 marks)

$\frac{3}{4} = 0.75$ 76% ÷ 100 = 0.76

0.7, $\frac{3}{4}$, 76% (3 marks)

Bonus: There are 12 humans, 3 budgies, 3 guinea pigs, 1 rat, 4 cats, 1 snake, and 6 dogs in the waiting room of an animal clinic. If no creature is missing a leg, show what percent the number of **human legs** is compared to the **total number of legs** at the clinic. Round your answer to the closest whole percent.(1 mark)

12 humans = 24 legs
3 budgies = 6 legs
3 guineapigs = 12 legs
1 rat = 4 legs
4 cats = 16 legs
6 dogs = 24 legs
1 snake = 0 legs

86 total

$\frac{24}{86} = 0.279 \times 100$

27.9% or

28%

End...check all your work and answers to avoid silly mistakes...did you show all work?

When fully done, draw a wonderful Spring Break picture on the back page.