**Percents Final Exam Review**

* **Introduction of Percentages**
1. Show 24% on a 10 x 10 grid.
2. Use a diagram to show each fraction.

6 4

7 10

1. Show each fraction as a decimal and percent

2 18

3 11

1. Find 45% of 171
* **Representing Percents**
1. Two 10 x 10 grids are present. One is fully shaded the other has 45 square shaded. What percent is represented by the shaded portion?
2. One 10 x 10 grid is present. One square is divided into twelve equal parts. Eight of twelve parts are shaded. What percent is represented by the shaded portion?
3. Show each percent on 10 x 10 grids? Use however many are required.

1% 7 3% 124%

2 4

**d.** Why would a percentage greater than 100% be used to represent the growth of a spruce tree?

**e.** A 500 mL cup of milk contains 23% of the recommended daily value of calcium. How many cups of milk to the nearest hundredth would you need to get 100% of the daily value of calcium? Show your answer on a 10 x 10 grid.

* **Fractions, Decimals, and Percents**
1. Convert to a decimal and percent.

1 7

600 6

1. Convert to a percent and fraction.

0.0094 0.769 5.66

1. Convert to a decimal and fraction.

467% 0.68% 79 3%

 4

1. A chocolate bar contains 23 g of sugar. In one day you consume 57 g of sugar including the bar. What percentage of the total sugar consumption does the bar represent to the nearest hundredth?
2. Your resting heart rate is 50 beats per minute. Walking your heart rate is 55 beats per minute. Running your heart rate is 75 beats per minute. Express each heart rate compared to the resting heart rate as a percentage to the nearest hundredth.
* **Percent of a Number**
1. Determine the percent of each.

201% of 3001 0.3% of 81

1. Find the percent to the nearest hundredth.

3 % of 546 296% of $346.71

5

1. 500 tickets are sold for a concert. At the door 5 tickets will be selected to meet the artist. What is the chance of meeting the artist as a percent?
2. The area of a lake community is approximately 7359 km2. The area of the lake is about 9 3% of the area lake community. What is the area of the lake?
* Combining Percents
1. You buy 2 hamburgers for $5.99, 1 Fries for $2.60 and 1 pop for $1.25. Find the total cost including GST and 8.5% PST.
2. A school’s student population increased over two years. The 1st year it increased by 2% the second year it increased by 5%. Find the population after the 2nd year if the original population was 627 students.
3. A house is priced at $480 000 in October. Six months later the cost increases by 1.2%. What is the new price of the house? What is the total **cost** of the house with GST?

**Questions to Review**

Chapter 4 Get Ready

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Understanding Percents Assignment 1

Understanding Percents Quiz

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Percents Assignment 2

Understanding Percents Test