

Student: _____**Instructor:** Ray Brown**Assignment:** HW 2.6 - Applications**Date:** _____**Course:** FRCC Mat 050.603

Involving Percents (Also percent inc/dec)

1. A student's cost for last semester at her community college was \$2400. She spent \$336 of that on books. What percent of last semester's college costs was spent on books?

_____ % of last semester's college costs was spent on books.

H

3. A furniture company currently produces 5900 chairs per month. If production decreases 5%, find the amount of the decrease and the new number of chairs produced each month.

1/2 of 10%

The amount of the decrease in the number of chairs produced each month is _____.

The new number of chairs produced each month is _____.

95

5. A popular extreme sport is snow boarding. Ski trails are marked with difficulty levels of easy ●, intermediate ■, difficult ◆, expert ◆◆, and other variations. Use this information to solve the following problem.

At a popular ski resort, 30 of the 150 total ski runs are rated intermediate. Approximately what percent of the runs are intermediate?

The percent of runs that are intermediate is approximately _____ %.

(Round to the nearest whole number as needed.)

Answer: 20

6. For the food described, find what percent of total calories is from fat. If necessary, round to the nearest tenth of a percent.

Nutrition Facts	
Serving Size 18 crackers (29g)	
Servings Per Container About 9	
Amount Per Serving	
Calories	150
Calories from Fat	30

_____ % of total calories are from fat.

Answer: 20

7. A family paid \$26,400 as a down payment for a home. If this represents 16% of the price of the home, find the price of the home.

Down payment
part or whole?

The price of the home is \$ _____.

Answer: 165,000

8. A car manufacturer announced that next year the price of a certain model car would increase by 4.5%. This year the price is \$17,906. Find the increase and the new price.

The increase in the price of the car is \$ _____.
(Round to the nearest cent as needed.)

The new price of the car is \$ _____.
(Round to the nearest cent as needed.)

\$ 805.77

10. There are 155 calories in a cup of whole milk and only 93 in a cup of skim milk. In switching to skim milk, find the percent of decrease in number of calories per cup.

The percent of decrease is _____ %.
(Type a whole number or a decimal.)

$$\frac{\text{Finish} - \text{start}}{\text{Start}} \cdot 100\%$$

48%

12. The number of cell phone tower sites in a country was 176,407 in 2006. By 2012, the number of cell sites had increased to 333,905. Find the percent of increase.

The percent of increase is approximately _____ %.
(Type a whole number or a decimal rounded to the nearest tenth as needed.)

$$\frac{\text{Finish} - \text{Start}}{\text{Start}} \cdot 100\%$$

89.3%

14. A popular extreme sport is artificial wall climbing. A climber is resting at a height of 19 feet while on a climbing tower. If this is 20% of the tower's total height, find the height of the tower.

The height of the tower is _____ feet.

What do you do to answer this?

95 ft