

MAT 0012C

Name: \_\_\_\_\_

Practice for Exam

Date: \_\_\_\_\_

Chapter 8(v3)

Section: \_\_\_\_\_

1. Fill in the following chart:

Write your answers in simplest form.

(round your answers to the nearest hundredth)

Fraction	Decimal	Percent
7/16		
	0.384	
		24 %
	2.68	

2. Solve each equation:

a) 58% of 32 is what number? \_\_\_\_\_

b) 17 is what percent of 68? \_\_\_\_\_

c) 2.5 is 75% of what number? \_\_\_\_\_

d) 15 is 150% of what number? \_\_\_\_\_

3. Sixty five students are in math class today. If one hundred fifty students are enrolled in the class, what percentage of the students are in class today?

4. A real estate agent receives a commission of 3% on the sale of each house. How much commission will the agent receive if a house sells for \$300,000?

5. The enrollment at a community college increased by 26%. The enrollment was 3500 students after the increase. Find the starting enrollment at the community college. (Round your answer to the nearest student.)

6. A jacket that sold for \$150.00 is on sale for \$85.00. What is the percent decrease in price?

7. The bill at a restaurant is \$36.59. If a 6.5% sales tax is added, what is the total bill?
8. If 28% of Jack's salary is withheld for taxes and retirement, how much is withheld from a salary check of \$950.00?
9. If you invest \$9500.00 in a retirement account that earns 14% interest (APR) compounded daily (4 pts each)
  - a) what is the value of the account after 20 years?
  - b) what is the total amount of interest earned?
10. Sam wants to purchase a car for \$28,500. If he puts a 30% down payment on the car, how much money does he have to borrow from the bank?

<b>BONUS PROBLEM</b>	<b>2 points per part</b>
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The purchase price of a house is \$180,500.

- a) If the buyer puts a 10% down payment on the house, how much money is that down payment?
- b) What is the mortgage (amount borrowed)?
- c) If a loan is taken out on that property for 30 years at 9% interest (APR), what is the minimum principal and interest house payment?
- d) How much will the purchasers have paid the bank for that house after 30 years?