

Name: _____ Date: _____

MATH 7A ~ UNIT 3C REVIEW: PERCENT APPLICATIONS

When changing a decimal or fraction to a percent you _____ by 100.

When changing a percent to a decimal or fraction you _____ by 100.

Fill in the missing information in the table.

Fraction	Decimal	Percent
		$62\frac{1}{2}\%$
$\frac{3}{5}$		
	0.45	
	$0.\overline{4}$	

Use the formula, $I = PRT$ to answer questions 1-3. P is the principal amount of money, r is the rate written as a decimal and t is the time written in years.

- 1) A \$20,000 deposit earns 3.6% interest for 3 years. If no money is deposited or withdrawn how much will be in the account at the end of 3 years?

- 2) Julie borrows \$5000 from the bank at 10.5% annual interest. The loan is due in 18 months. How much will Julie owe the bank at that time?

- 3) Maggie puts \$580 into a savings account. The account pays 3% simple interest. If she earns \$87 in interest. How much time did she have the money in her savings account?

Use the percent proportion to answer each word problem. Show all work and DO NOT FORGET YOUR LET STATEMENT(S).

- 9) A pair of shorts is regularly priced at \$49.95. There is a 20% discount and a 5% sales tax based on the sale price. What is the final cost of the shorts?
- 10) An employee at Coach works on a 7% rate of commission. If Ms. Jones buys a new bag for \$499, how much commission will the employee earn?
- 11) You go out to dinner and the bill before tax and tip is \$140. If tax is 8.5% and you want to leave 18% of the bill including the tax for a tip, how much will you spend in total?
- 12) There are 30 students in Mr. Shaffer's class. If 27 of the students have brown eyes, what percent of the class has brown eyes?

- 13) A music store bought a CD set at a cost of \$20. When the store sold the CD set, the percent markup was 40%. What is the selling price of the CD set?
- 14) A pair of jeans is on sale for \$39.96 because it is **20% off** the original price. Find the original price of the jeans.
- 15) A TV is on sale for \$599.25. This is **75% of** the original price. What was the original price of the TV?
- 16) A car salesman earns \$2,453.70 in commission on his latest sale. If his rate of commission is 6% find the price of the car he sold.
- 17) A racing bike costs \$297.83, **including 4.5% sales tax**. What is the cost of the bike and how much is the tax?