Review for Percent Test

Converting Percents, Decimals, & Fractions:

Complete the missing information from the table below. Simplify all fractions.

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	Fraction	Decimal	Percent
1.	$\frac{55}{100} = \frac{11}{20}$.55	55%
2.	$\frac{96}{100} = \frac{24}{25}$.96	96%
3.	$\frac{4}{5}$.8	028 80%
4.	100	.01	1.7
5.	$\frac{21}{100}$.21 21 20	21./.
6.	$\frac{185}{100} = \frac{17}{20}$	1.85	185%
7.	7 9	875 = 18 ⁷ / ₅ 5/.	77.7%
8.	$\frac{125}{1000} = \frac{1}{8}$.125	12.5%

Comparing Percents, Decimals, & Fractions:

9. Compare the following with a < or >.

$$4\frac{1}{4} \ge 410\%$$

$$\frac{3}{8}$$
 > 37%

$$4\frac{1}{4} \ge 410\%$$
 $\frac{3}{8} \ge 37\%$ $43.5\% \ge .3599$

Ordering Percents, Decimals, & Fractions:

10. Order the following from least to greatest. Put back in original form!

33%,
$$\frac{1}{3}$$
, $\frac{3}{100}$, 0.3 or $\frac{1}{2}$ (cooper) to the first improve

$$.03, .3, .33, .\overline{3}$$
 $\frac{3}{100}, .03, 33\%, \frac{1}{3}$

3 Scenarios: Write and solve equations to answer the questions. Show your work!

Scenario 1: Solving for the part

$$X = .16 \cdot 85$$

 $X = 13.6$

Scenario 2: Solving for the whole

$$\frac{.08 \times = 28}{.08}$$

$$x = 350$$

Scenario 3: Solving for the percent

$$\frac{80 \times = 15}{80}$$

$$\times = .1875 = 18.75 \%$$

Tip:

At a restaurant, your dinner costs \$45.95. If you want to leave a 20% tip, how much should you leave? What is the total amount of money you spent?

Commission:

A realtor <u>sells a house for \$750,000</u>. If she <u>earns 4% commission</u> on her sales, how much will she make?

Discount and Sale Price:

You go shopping for a new sweatshirt. The <u>original cost is \$39.99</u>. You use <u>a 15%</u> off coupon. Find the discount and sale price.

Sales Tax:

If you want to buy an item that costs \$48.99 and the tax rate is 8.125%, how much is the tax and the total?

Discount, Sale Price, Tax Combo:

A store is having a 30% off sale. Your merchandise total is \$129.99. How much is the discount? What is the subtotal/sale price? The tax rate is 7%. Find the tax and the grand total for your purchase.

discount:
$$.30(129.99) = 38.997 \approx {}^{\$}39.00$$

Sale price: $129.99 - 39.00 = {}^{\$}90.99$
 $.07$
 $tax: .08125(90.99) = {}^{\$}7.39$
 $total: 90.99 + {}^{\$}7.36$
 $total: 90.99 + {}^{\$}7.36$

Markup:

A store's cost for a bike is \$75. The markup is 150%. What is the markup? What is the selling price for the item?

Percent of Markup:

A store marks up an item from \$18 to \$28. How much is the markup? What is the percent of markup on that item? Use 1. of change formula

markup:
$$28 - 18 = 10$$

What 1. of 18 is 10?

 $\frac{18 \times 10}{18 \times 18} \times 10$

Percent of Change:

Bob weighed 210 pounds. He went on a diet and now weighs 165 pounds. What is the percent of change in his body weight?

The regular price for sneakers was \$50. The sale price is \$35. What is the percent of discount/change?

Percent of Error: (Just like Percent of Change)

You estimate the size of your classroom to be 16 feet. The actual length is 21ft. Find the percent of error. Round to the nearest tenth of a percent.

percent of error =
$$\frac{amount\ of\ error}{actual\ amount} = \frac{21-16}{21} = \frac{5}{21} = .2381 = 23.8 \%$$