NAME: HOUR:

<u>Lesson 6.1: Using the Percent Proportion</u>			
Vocabulary			
Term Definition			
Percent Proportion	part = percent Whole 100		
Key Phrases			
Is part	of whole		

1a. Fifteen is what percent of 20?

$$\frac{15}{20} = \frac{0}{100} \sqrt{75\%}$$

1c. What percent of 5 is 12?

2a. What number 11.4% of 330?

$$\frac{P}{330} = \frac{11.45}{100} \boxed{37.62}$$

2c. Find 15.3% of 425.

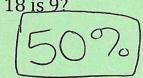
3a. Thirty percent of what number is

$$\frac{63?}{W} = \frac{30}{100} 21^{210}$$

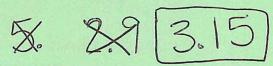
3c. Forty-five is 3% of what number?

1b. One hundred is what percent of 25?

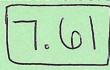
1d. What percent of 18 is 9?



2b. Find 10.5% of 30.



2d. What number is 63.4% of 12?



3b. 3000 is 60% of what number?



3d. Eighteen percent of what number is 126?



Lesson 6.3: Using the Percent Equation

	Vocabulary
Term Definition	
Percent Equation	part = Whole · percent Lin decimal

1b. Find 45% of 70.

31.5

2b. 20 is what percent of 400?

3b. 79 is 80% of what number?

98.75

1a. Find, 60, % of 96.

2a. 15 is what percent of 125?

3a. 18 is 30% of what number?

4. Mr. Potter bought a house for \$175,000. Five years later, he sold it for a 24% profit. What was the sale price of the house? 24+100=1240/0

175,000 . 1.24 =

5. A \$45.00 mixer sold for \$47.70 with tax. What is the percent of sales tax?

$$\frac{450}{45} = \frac{47.70}{45}$$
 $n = 1.04$

$$100\%$$
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Lesson 6.4: Percent of Change

Vocabulary			
Term	Definition		Formula
Percent of Change	A ratio that compares the change in two amounts		olo = big-small original
Percent Increase From originit quality	nal to new oes up	Percent Decrease From Origina	al to new

- 1. Ty had 52 comic books. Now he has 61 books. Find the percent of change. Round to the nearest tenth, if necessary. State whether the percent of change is an *increase* or *decrease*.
- 2. Find the percent of change from 24 points to 18 points. Then state whether the percent of change is an *increase* or a *decrease*.

Term	Definition	Formula
Percent of Error	a measure of the difference between an estimation and the actual value	0/0 = big-small amount actual
Find the percent of error, Round to the nearest tenth, if necessary		

3a. Estimated weight: 8 pounds, actual weight: 6.4 pounds

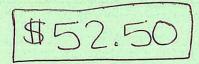
3b. measured length: 2.5 centimeters, actual length: 2.54 centimeters

Lesson 6.5: Discount and Markup

Vocabulary			
Term	Definition		
	The amount add to what the		
Markup	Store paid. Always a percent of increase		
Selling Price	How much the customer pays.		

Find the selling price if a store pays \$42 for a pair of in-line skates and the markup is 25%.

Add markup to the regular price:



Add the percent of markup to 100%:

Also used with...

tax, tip, profits

1. Find the selling price if a store pays \$68 for a portable DVD player, and the markup is 35%

1	Term	Definition
The state of the state of the state of	Discount	the amount a Store Will mark an item down Sale clearance

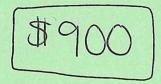
A restaurant rolled back prices for a day to their 1964 prices. A pizza that usually sells for \$8.50 was marked down 90%. What was the 1964 price of the pizza?

Subtract the discount from the regular price:

Subtract the percent of discount from 100%:

2. A magazine subscription has a cover price of \$35. It is on sale for 67% off the original price. Find the sale price of the magazine subscription.

3. Luisa got a 75% discount on a sofa. She paid a total of \$225. What was the original price?



4. A CD with an original price of \$11.95 is discounted 20%. Sales tax of 5,5% is added to the discounted price how much does it cost to purchase the CD? \setminus

(1) Discounted price:

(2) Sales tax:

only on the initial principal

11.95.0.2= 2.39

Term

Simple Interest

Interest

11,95.0.8=

9.56.0.055=0.5258

11,95+2.39= 9.56

9.56

institution.

9.56 + 0.5258 = 10.0858

Lesson 6.6: Simple and Compound Interest

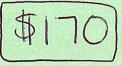
GOM SOUTH MILES OF	10001
Vocabulary	
Definition	
amount of money paid or earned	d
but a bank or other financial	

Interest	Principal	Rate	Time
I = amount of interest	P=initial amount	r = percent * written in decimal form	t= Written in terms of years

1a. \$2250 at 6% for 4 years

1b. \$4000 at 4.25% for 1 year

I = 2250. 0.06.4



2. Suppose Nantai placed \$2400 in the bank for 5 years. The annual interest rate is 4.6%. Find the total he has in the bank.

\$2952

\$552

1	Vocabulary		
	Term	Definition Canada Total	
	Compound Interest	You find the interest Interest from the previous amo	
	What is the total amount of money in an account where \$81 interest rate of 6.25% compounded annually for		
	0 800.0.06	25.1=50 3 903.125.0.0625=56.	44
	800 + 50 850	903,125 + 56,445 959.57	
		025.1=53.125 (4) 959.57.0.0625.1=59 53.125=903.125 + 59.97 (\$1,019.54)	.9°

3. What is the total amount of money in an account where \$5000 is invested at an interest rate of 5% compounded annually after 3 years?

\$ 5,788.13

