Pd Name \_\_\_\_\_ Date \_\_\_\_\_

# Notes Chapter 7 It's TIME for your NOTES, Your Handy

Review

### Operations of Decimals

Rule for Adding and Subtracting Decimals:

\$3.49 + \$0.79 + \$0.99

Ex:2

21.76 +32.8 +0.999

Ex:3

25.78 - 12.4

Ex:4

\$10-\$6.75

Rule for Multiplying Decimals:

Ex:5

0.5 0.32

Ex:6

3.25 • 4.6

Ex:7 | 3.3 · 7.52

Ex:8

0.25 · 0.15

Name \_\_\_\_\_

Date \_\_\_\_\_ Pd\_\_\_

Rule for Dividing Decimals:

Ex:9 
$$\frac{25.5}{1.2}$$

Ex:10 
$$\frac{2.754}{3.4}$$

Ex:11 
$$\frac{44.8}{3.2}$$

Ex:12 
$$\frac{13.144}{2.12}$$

Check for Understanding

$$6.4 + 7.89$$

$$8.02 - 7.921$$

$$\frac{5.16}{4.3}$$

Name \_\_\_\_\_ Date \_\_\_\_ Pd\_\_\_\_\_ Percent Proportions (p350-354) Lesson 7-2 Steps 1) \_\_\_ What number is 50% of 80? Ex:3 |8 is N% of 64. Ex:2 12 is  $33\frac{1}{3}\%$  of what number? Check for understanding Ex:4 X% of 80 is 34. 47 is 50% of what number? Ex:5

Ex:6 16 is what % of 24? Ex:7 Y is 75% of 96?

Name \_\_\_\_\_ Date \_\_\_\_ Pd\_\_\_\_\_

#### **Decimal Operations & Percent Proportions Review**

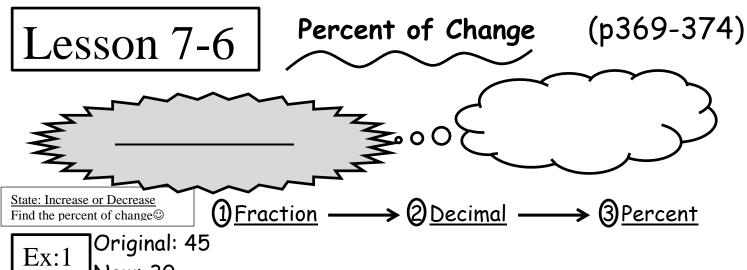
$$E_{X:2}$$
 56 – 20.3

Ex:4 
$$\frac{.75}{1.3}$$

Ex:7 
$$X \text{ is } 33\frac{1}{3}\% \text{ of } 36$$

Ex:8 
$$7\frac{1}{7}\%$$
 of 70 is what #?

Pd Name \_\_\_\_\_ Date



New: 30

Original: \$400 Ex:2 New: \$450

|Original: \$12.50 Ex:3 New: \$15

Original: 36 Ex:4 New: 66

Original: 2.5 Ex:5 New: 75

State: Increase or Decrease Find the percent of change®

Check for understanding

Original: 5.4 Ex:6

New: 10.8

Ex:7

Original: \$80

New: \$110

Original: 85 Ex:8

New: 68

Original: 20.8 Ex:9

New: 13

Name	Date _	Pd		
Lesson 7-7a	Percent S	tory Problems (p	375-378)	
Use the information to fill in the chart. Write a proportion and solve.  Ex:1  There are 625 students at school. 325 are boys. What % are girls?				
	% % 100%	1)	S	
Ex:2 There are 90 Pr You get 60 prob Find the percen		Sally baked 400 Ex:3  Sally baked 400 8% of them we What % was ed	re burnt. lible? %	
	% 100%		100%	

Nan	ne		Da <sup>-</sup>	te Pd	
Le	esson	7-7b	Shopping	g Story Problems (p375-378)	
Use Ex	.1			shart. Write a proportion and solve. \$10. The sale price of it is \$7.50.	
S	ale Price		%		
1	Discount		%		
	Regular		100%	<del></del> =	
	1				
			Check for u	understanding	
Ex	:2 Disco	unt 25% No	w pay \$40.5	Ex:3 (We did this last unit) Sales tax 6%. Cost \$20	
Find	Find the Regular Price: Find the discount price:				
	Sale Price	2	%		
	Discount		%		
	Decular		1000/	Find the Sales Tax:	

100%

Regular

Find the Total:\_\_\_\_\_

Name	Date	Pd
Lesson 7-7c	TIPS & Sales Tax	(p375-378)
*10 % Tip (Not so g [Ex:1] a) \$28	good Service) b) \$41	c) \$80.60
*15 % Tip (OK Serv		
Ex:2 a) \$28	b) \$41	c) \$80.60
*20 % Tip (Great S		
Ex:3 a) \$28	b) \$41	c) \$80.60
*Sales Tax (This m	noney goes to the gove	ernment)
Ex:4 Sales Tax is 3%	%. The cost of dinner is \$17.	
Find the amour	nt of sales tax:	
Find the total	cost:	
Charle Caramada a aban di	<b>5</b> : 1.1	1 20% 1:
Check for understanding		<del>.</del>
Ex:5 Your total bill	was \$30.00   Ex:6   You	ur total bill was \$58.50

Name	Date	Pd	
Lesson 7-8	Simple Int	erest	(p379-382)
Principal	_		
Simple Interes	†- <u></u>		
<b>'</b>			
Ex·1 Sally opens	ind the interest earn a savings account. She ne account pays 3% simp	deposits \$1	
b) 8 years	6 months		
	errows \$7,500 for a car years, how much money		
	Check for understa	nding	

You won \$3.8 million from the Iowa Lottery. You decide not to spend the money, instead save it for college or early retirement. With a simple interest rate of 4%, how much money will you have?

- a) College: 5 years 4 months
- b) Early retirement: 37 years (retire at the age of 500)

### Review 7-7 & 7-8

Ex:1

A house is \$130,000. You put down 20% on the house for a down payment. How much do you still owe?

	%
	%
	100%

\_\_\_\_ = \_\_\_\_

Ex:2

A fancy pair of bedazzled jeans cost \$170. They are on sale for 25% off. There is also a 6% sales tax. Find the final cost. Use any method!

	%
	%
	100%

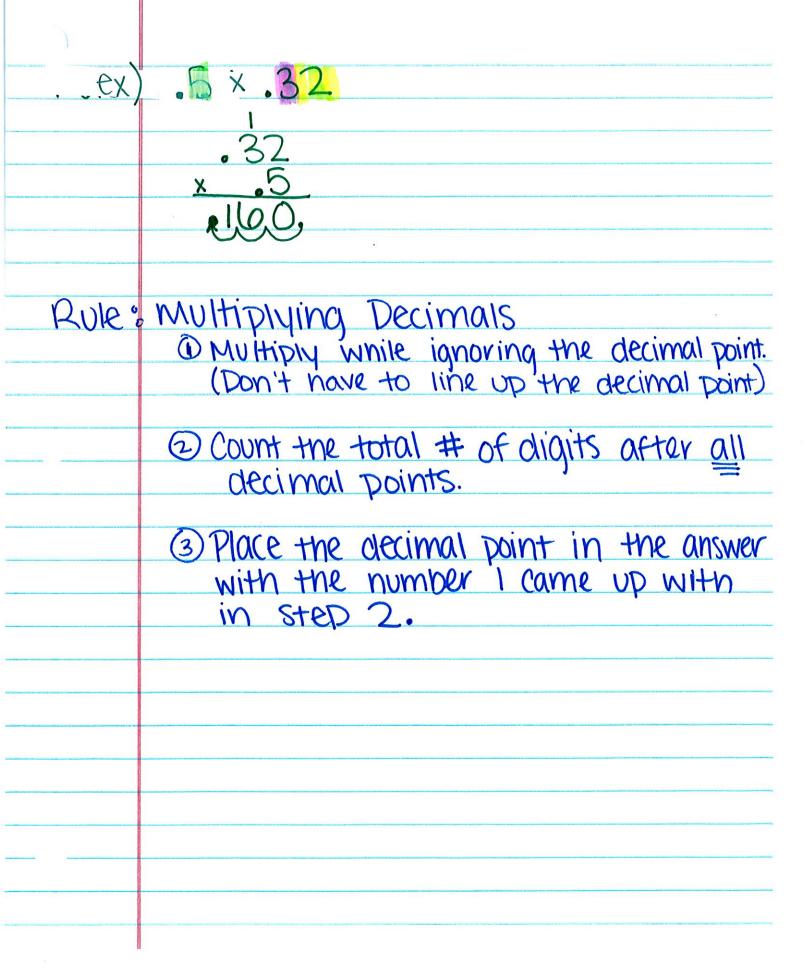
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Ex:3

You spend \$43.60 at the Granite City. The service was respectable with no problems.

- a) What is a 10% tip?
- b) What is a 15% tip?
- c) What is a 20% tip?
- d) How much is your total bill? You choose the tip %!!!

	Adding/Subtracting/Multiplying Decimals \$3.49 + \$.79 + \$.99
ex	\$3.49 + \$ .79 + \$ .99
	Adding/Subtracting Decimals Le Line up the decimal point & place values.
	3.49
	# .99 #5.27
ex	\$ 10 - \$ 6.75
	- 6.75 (always goes after the ones place value)
	\$3.25 the ones place value
	(Add zeros so the) numbers end in
	the same place value
Annual sections of the section of the	



# Dividing Decimals

ex) 1.326 ÷ 26 0.05 I 0.05 I is the =1304 divisor 26 a whole number =26

26 326 x 7 x 5 182 130

ex) 2 ÷ .005

(ex) 0.728 ÷ 0.13

divisor a whole number?

× 130 × 130 × 130 × 130 × 18 × 18 × 18 × 17 - 78 - 78 - 78

Rule: When divicting decimals, move BOTH decimals points until the divisor is a whole number.

7 ÷ . 04

## Basic Operations of Decimals

ex) \$1.29 + \$.89 + \$2

When adding ésubtracting decimals, just line up the dot é give it all you got.

1.29

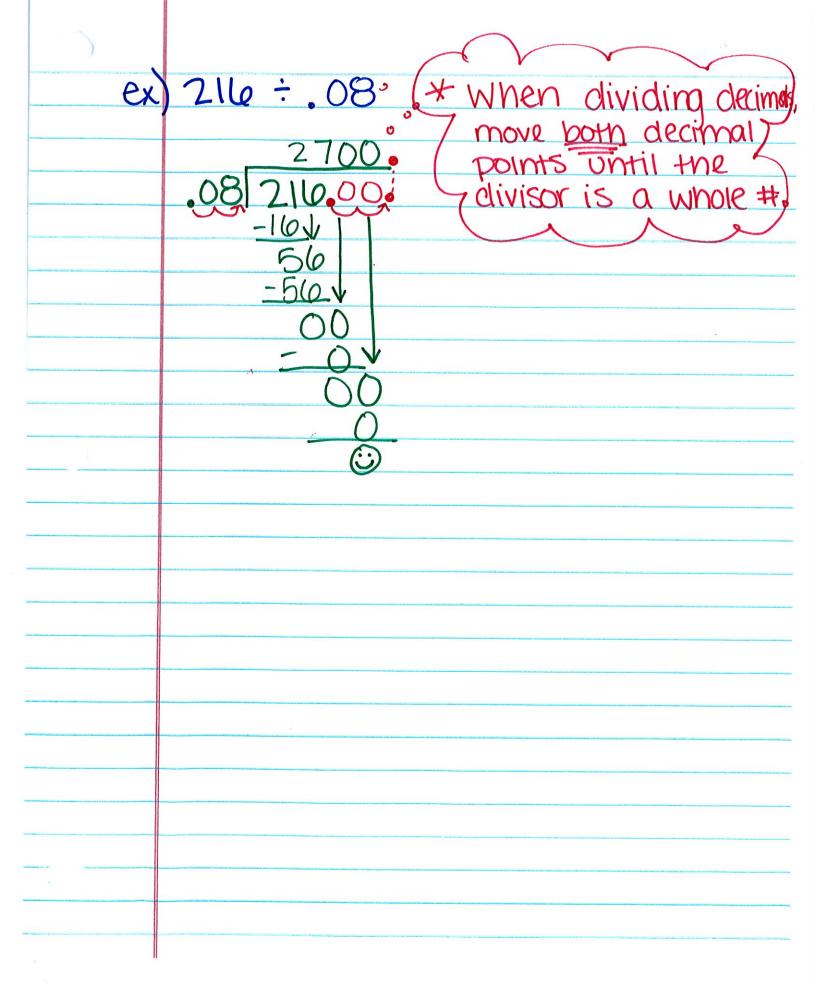
The decimal point } goes after the ones place value

ex) \$ 10 - \$ 7.84 09 9 10.12 - 7.84 4 2.10

ex) . 6. 32 × DO NOT line up the decimal.

32

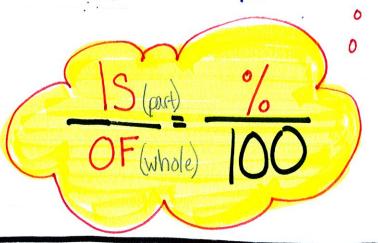
\*After multiplying, move the decimal point in the answer the total # of digits after ALL the decimals.



### 1-2 esson 7-2

Percent Proportions (p350-354)

ex: (What is) (50%)



100B=12×33=

D Circle Ut the "18" number "0F" number \*\*

2) Set up 15 = 100

3) Show Steps & solve

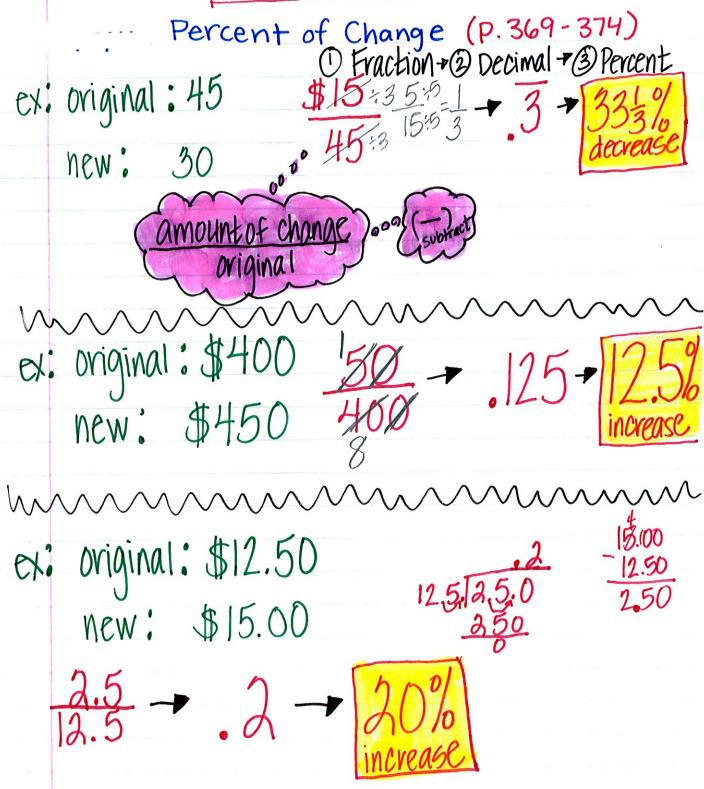
$$\frac{15}{12} = \frac{303}{100}$$

$$\frac{100R}{100R} = \frac{12 \cdot 333}{100}$$

$$\frac{100R}{100} = \frac{400}{100}$$

$$\frac{100}{100}$$

### Lesson 7-6



### Lesson 7-7

### Percent Story Problems (p375-378)

ex: There are 625 students at a school. 325 are boys. What percent are boys?

Words	Number 5	Percent #5	
Girls			O Fill in the
Boys	325	C	2) #'6 Write a f
Total	625	100%	* must ha 3 Show prop
			# Solve!

$$\frac{250}{25} = 1,300$$

e chart with:

proportion we 2 full yous!

portion Steps.

\* Don't forget your label!

ex: There are 90 problems on a test. You get 60 problems correct. Find the percent missed

Correct	60	
incorrect	30	A
Total Problems	90	100%

$$\frac{30}{399} = \frac{A}{100}$$
 $A = \frac{33}{3}$ %

# Lesson 7-7

· Shopping Story Problems (p375-378)

ex: Regular Price is \$10.00 Sale Price is \$7.00

- Find the amount of discount \$300

Find the percent of discount 30%

(what you do part)	Sale price	\$7	
you gan		\$3	C %
total post	Regular	\$10	100%

$$\frac{3}{10} = \frac{C}{100}$$
 $10C = 3 \times 100$ 

$$\frac{100}{10} = \frac{300}{10}$$

ex: Reduced by 25% Now Pay \$40.50

- Find the regular price \$5400
- Find the discount \$13.50

	Sules Price	\$40.50	75%
Reduced by-	Discount		25%
- O 	Regular Price	M	100%

$$3M = 40.50 \times 4$$

$$\frac{3M}{3} = 162$$

		And the second s
Less	$\bigcap$	1-1
100	Ort	
Sales	Ta	V
JUICS	IU	$\wedge$

(p375-378)

In \$ that goes to the government.

Sales tax: a tax. based on the cost of an item.
It's a percent of the cost.

ex) 1A's is 6%

ex) Sales tax is 3%

The cost is \$17. 17.00

Find the tax \_\$.51 17.51

Find the total amount \$17.51

\*\*Solution\*\*

ex) Salles tax is 5%

The price is \$60.

Find the tax \$3

Find the total amount \$63

60×.05

400 300

Simple Interest (p379-382). Principal - Amout of & deposited or Borrowed Simple Interes - Amount paid or earned for the Principal USE of the \$. I = Prt > time expressed in years rate, writtenas a decimal Find Interest Earned Sally opens a savings account. She deposites imple 1.350 into the Account. The account pays 3% interest of the Account. The account pays 3% interest of the decimal a) 5 years I = 1,350(.03)5I = \*202.50b) 8 years le months I=Prt  $\frac{6}{12} = .5$  I= 1,350(.03) 8.5 I=#344.25 Ex:21 Herbert borrows \$ 7,500 for a car. The simple interest Rate is 6%. Over Z years how much # will he Pay in interest? I . Ob I - Prt I - 7,500 (.06) 2 I = 4900