Weekly Math Mania

Topic: Proportional Relationships (PERCENT APPLICATIONS)

Date Due: Tuesday, November 3rd , 2015

Standards: CCSS.Math.Content.7.RP.A.3

Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

CCSS.Math.Content.7.EE.B.3

Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. *For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.*

Family Engagement	Words at Work								
	Percent of Change								
Solve the percent riddle "How do you make a	Percent Error								
vegetable necklace?" with a family member!	Sales Tax								
	Tip/Gratuity								
	Markup								
	Selling Price								
Independent Practice	Math in the Real World								
Page 147-148 problems 1-13	Complete the Real World Link "Kayaks" on page 151.								
Page 155-156 problems 1-10	Complete the table and answer questions 1 and 2.								
Please tear these pages out and staple it to the	Please do not tear this page out, I have provided a copy								
packet.	of it in this packet.								
Choose either the online ac	tivity OF the textbook activity.								
Online Activity Textbook Activity									
Please do the Textbook Activity this week \rightarrow	,								
	Complete page 143 problems 1-3. Do NOT tear it out. I								

have provided a copy of it in this packet.

How Do You Make a Vegetable Necklace?

Use the information given in the chart to fill in the missing values. In the rectangle below, cross out the box containing each correct answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

	Article on Sale				riginal Price	Percent Discount	Ar D	Amount of Discount		Sale Price		
1	1. calculator				\$12	25%						
2	2. tent				\$90	25%						
3	 sweater dress 				\$65	25%						
4					578.00	15%						
6	 5. camera 6. sports jacket 7. tape deck 8. VCR 			\$	129.50	40%	40%					
6				\$140 \$299.95 \$575.00		35%						
						20%						
8						10%						
4	9. rac	racing bike			\$360	$33\frac{1}{3}\%$						
				_				_		-	-	_
D	0	Y	FI		ST	00	0	OP		н 70	H	
\$51	517.50 \$51.80 \$67.		50 \$508.50		\$59.99	\$2	\$240		.70	\$75.20	4	
S	ST IN TO		BI		GB		A		A	CIC OF	,	
\$	59	\$43.75	\$12	0	\$49	\$69.30	\$	\$3 \$2		9.96	\$16.25	2
\$	P EA \$91 \$227.86 \$6		\$66.	30 \$48.7		\$57.50	\$64	\$64.50 \$2		1 2.50	0P \$77.70)













Real-World Link

Kayaks Alonso plans to buy a new kayak that costs \$2,100. But when he buys the kayak, it actually costs more because he lives in a county where there is a 7% sales tax.

You can find the amount of tax on an item by multiplying the price by the tax percentage.

 Circle the amount below that shows the amount of tax Alonso will pay for the kayak.



\$147

- Use the amount of tax from Exercise 1 to fill in the receipt at the right. Then find the total cost Alonso will pay for the kayak.
- Multiply 1.07 and \$2,100. How does the result compare to your answer in Exercise 2?
- On Alonso's kayaking trip, hiring a guide costs \$50. Alonso wants to give the guide a 10% tip. Explain how to find the amount of the tip.



Online OR Textbook Activity

(First state what you chose. Then, please write out the problem, show all of your work, and box your answer. Please be neat and organized.)

