Monday January 4, 2016

AGENDA

Warm-Up

Michael Kors

What's my number?

Are you ready?

Cornell Notes:

Percent Equations

PRACTICE

HOMEWORK

Warm Up

COPY and SOLVE

1. What is 20% of 100?

2. What is 50% of 56?

3. The United States Department of Agriculture (USDA) recommends that women should eat 25 grams of fiber each day. If a granola bar provides 9% of that amount, how many grams of fiber does that contain?

$$\frac{\text{IS (Part)}}{\text{OF (Whole)}} = \frac{\%}{100}$$

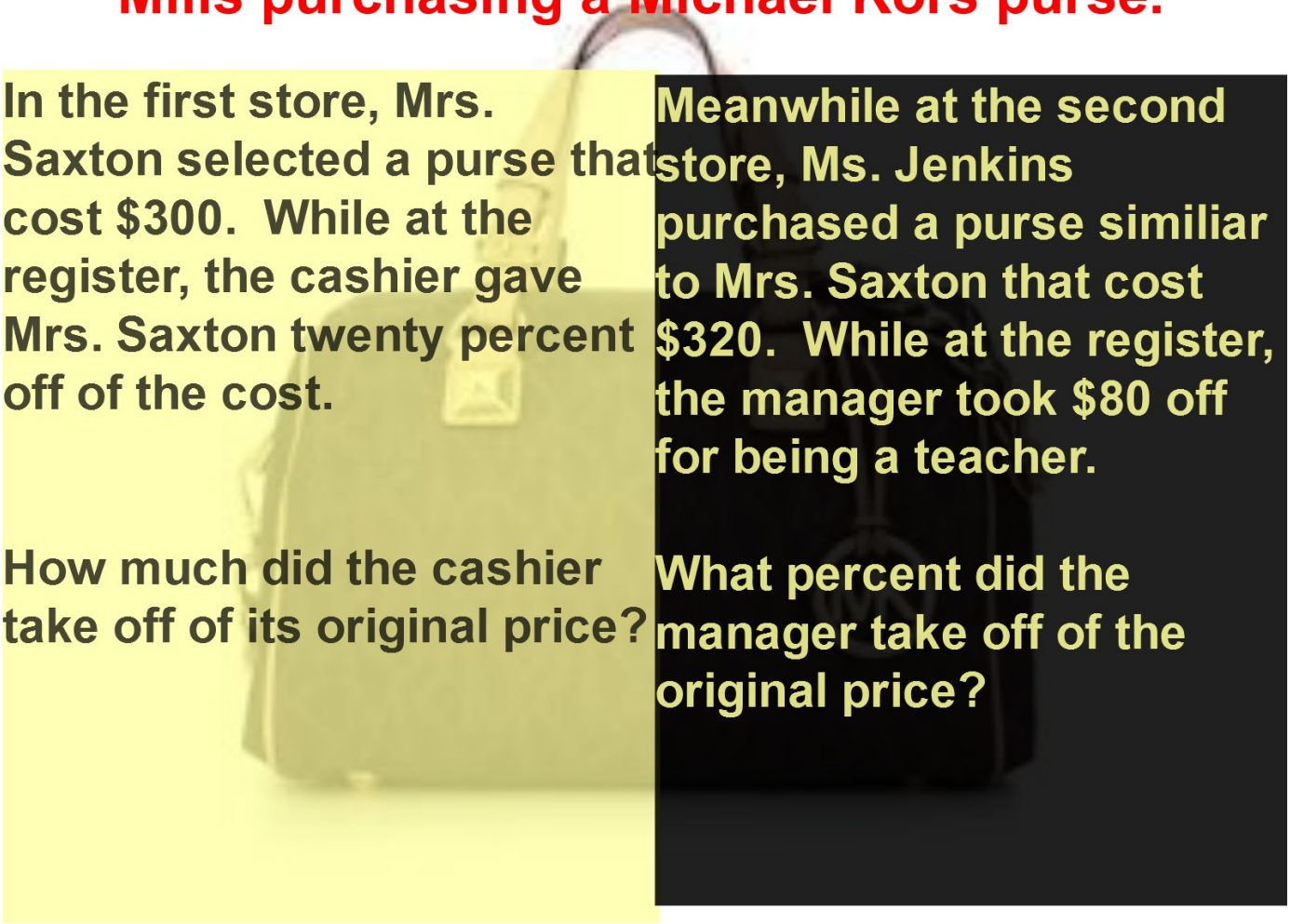
Step 1: Underline IS, circle %, and put a square around OF

Step 2: Input the numbers that represent the words

Step 3: Cross multiply and solve for missing number (X)

1. 64 is 50% of what number
2. what is 30% of 90
3. 23 is 15% of what number
4. what is 45% of 60

Mrs. Saxton and Ms. Jenkins are at Concord Mills purchasing a Michael Kors purse.



In the first store, Mrs. Saxton selected a purse that cost $300. While at the register, the cashier gave Mrs. Saxton twenty percent off of the cost.

How much did the cashier take off of its original price?

Meanwhile at the second store, Ms. Jenkins purchased a purse similiar to Mrs. Saxton that cost $320. While at the register, the manager took $80 off for being a teacher.

What percent did the manager take off of the original price?

Topic: Percent Equation	*Lesson Essential Question:* **How can proportions help us solve real world problems involving percents?**
What is a PERCENT EQUATION?	**A PERCENT EQUATION is another way of writing a percent using proportions.**
ooks Like...	$\frac{\text{IS}}{\text{OF}} = \frac{\text{PERCENT}}{100}$
hat do I do?	**Highlight and identify three things:** ■ the "IS" ■ the "OF" ■ the "PERCENT"

Example

■ **What percent of $320 is $80?**

Highlight the IS, OF and PERCENT

$$\frac{IS}{OF} = \frac{PERCENT}{100}$$

$$\frac{\$80}{\$320} = \frac{x}{100}$$

$$\$320\,(x) = \$80\,(100)$$

$$320x = 8000$$

$$x = 25\%$$

WHAT'S MY NUMBER?

USE A PROPORTION TO SOLVE EACH.

14 70 50

1) 30% of my number is 15.

2) 56 is what percent of 80?

3) I am 25% of 56.

ARE YOU READY??

Mr. Jones spent $156 to attend a college football game.

- Twenty percent of this cost was for a parking pass.
- He spent the remainder of the money on two tickets for the game.

What was the price per ticket?

A $15.60

B $31.20

C $62.40

D $124.80

Describe the 3 steps needed to solve this problem, then find the answer.

COLLEGE FOOTBALL PLAYOFF

So, $15.60 is what % of $156?

Tuesday January 5, 2016

AGENDA

Warm-Up

Cornell Notes:

Sales Tax and Tip

Are you ready?

PRACTICE

HOMEWORK

WARM UP COPY and SOLVE

1. 46 is 25% of what number?

2. 125 is what percent of 50?

3. Kayla and Samantha received their results from their last math test. Kayla answered 15 out of 18 correct, and Samantha answered 10 out of 12 correct. Samantha tells Kayla they have the same score. Is she correct? Explain.

Sales Tax And Tip

Topic: Sales Tax & Tip	*Lesson Essential Question:* **How does sales tax and tip represent an increase in our spending?**	
What is SALES TAX & TIP?	**SALES TAX** *the percentage of the original price that is added to your total bill when you make a purchase.*	**Tip** money given to someone to show appreciation for a service. *Calculated before tax is added.*
What do I do?	**METHOD 1** **STEP 1:** Convert the percent to a decimal. **STEP 2:** Multiply the original price and decimal. **STEP 3:** Add tax or tip to original price.	**METHOD 2** **STEP 1:** Use proportion to find tip or tax **IS** = **%** **OF** 100 **STEP 2:** Add tax or tip to original price.

Example 1- Figure out your total bill, if you buy a DVD for $15.50 with a sales tax of 5%.

METHOD 1

STEP 1: Convert the percent to a decimal.

STEP 2: Multiply the original price and decimal.

STEP 3: Add tax or tip to original price.

METHOD 2

STEP 1: Add the percent and 100%.

STEP 2: Convert the percent to a decimal.

STEP 3: Multiply the original price and decimal.

Example 2- Lindsay went to Best Buy and bought an MP3 Player. If the MP3 Player costs $78.99 and the sales tax was 6.5%, what was her total bill?

METHOD 1

STEP 1: Convert the percent to a decimal.

STEP 2: Multiply the original price and decimal.

STEP 3: Add tax or tip to original price.

METHOD 2

STEP 1: Add the percent and 100%.

STEP 2: Convert the percent to a decimal.

STEP 3: Multiply the original price and decimal.

ARE YOU READY??

Mr. Sanchez bought 2 magazines for $9.95 each and 1 book for $14.95. If the sales tax is 6%, what is the total cost of Mr. Sanchez's purchases?

A $25.50

B $26.39

C $35.45

D $36.94

The Smith family went out to dinner.

- The price of the meal was $29.85.
- The sales tax was 6% of the price of the meal.
- The tip was 15% of the meal and the sales tax.

How much money did the Smith family pay for the meal, including tax and tip?

A $50.85

B $36.39

C $36.12

D $31.95

Wednesday January 6, 2016

AGENDA

Warm-Up

Review Hw

Cornell Notes: Discount

HOMEWORK

Quiz Friday

WARM UP COPY and SOLVE

1. 58 is 25% of what number?

2. If each can in number 3 contains 12 ounces of soda, what is the price per ounce of soda?

3. What is 12% of $60.00?

4. What is 7% of $4.00?

Topic: Discounts	*Lesson Essential Question:* **How does discount represent a decrease in our spending?**
What is a DISCOUNT?	**DISCOUNT** *the percentage of the original price that is SUBTRACTED from your total bill when you make a purchase.*

What do I do?

METHOD 1	METHOD 2
STEP 1: Convert the percent to a decimal.	**STEP 1:** Subtract the percent and 100%.
STEP 2: Multiply the original price and decimal.	**STEP 2:** Convert the percent to a decimal.
STEP 3: Subtract tax or tip to original price.	**STEP 3:** Multiply the original price

Example 1- Figure out the percent discount you received, if you buy a Smart TV for $550.99 with $40 off.

METHOD 1

STEP 1: Convert the percent to a decimal.

STEP 2: Multiply the original price and decimal.

STEP 3: Subtract tax or tip to original price.

METHOD 2

STEP 1: Add the percent and 100%.

STEP 2: Convert the percent to a decimal.

STEP 3: Multiply the original price and decimal.

Thursday January 7, 2016

AGENDA

Warm-Up

Cornell Notes:

Discounts

Tax, Tip, Discount PRACTICE

What's on your plate?

HOMEWORK

Quiz Friday

WARM UP COPY and SOLVE

1. Change from percent to decimal.

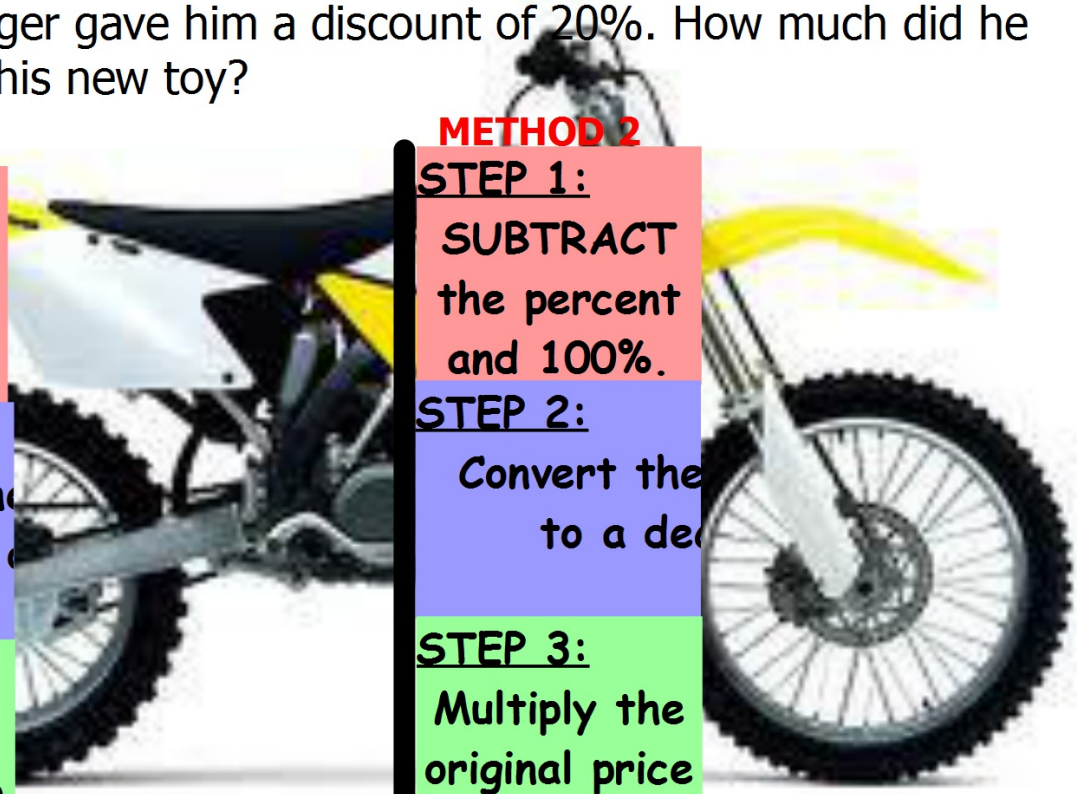
a) 34% b) 95% c) 12.5%

2. Solve for x.

a) $2(x + 3) = 14$ b) $6 - 4x = 32$

3. In 2011, the average temperature in Alaska was 5°F. This year, the average temperature has increased by 40%. What is the average temperature for in 2013?

Example 1-Jordan purchased a new dirt bike that costs $5500. The manager gave him a discount of 20%. How much did he spend on his new toy?



METHOD 1

STEP 1: Convert the percent to a decimal.

STEP 2: Multiply th price and

STEP 3: SUBTRACT tax or tip to original price.

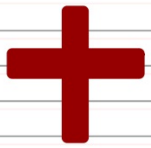
METHOD 2

STEP 1: SUBTRACT the percent and 100%.

STEP 2: Convert the to a de

STEP 3: Multiply the original price and decimal.

in general...



Tax and Tip
(both start with a  **)**

add to the price

Discount and Sales

subtract from the price

How many of you have gone to a sit down restaurant that has waiters/waitresses?

What is the approriate tip?

Let's say you went to Red Robin and had a bill of $24.62. There is a 7.5% tax and you need to tip the waiter ...

what to do????

You went to Red Robin and had a bill of $24.62. There is a 7.5% tax and you need to tip the waiter ...

find the TAX on
e original bill

find the TIP on
e original bill

both start with
", so, ADD both to
e original bill

ur job...

oose a meal from the menu
appetizer
main meal
drink (2.50)

nd the price,
then tax (7.9% of total)
then tip (15% of total)

on your plate you nee

1. **what you and your friend ate**
   HONORS FAMILY OF FOUR with a 1 coupon
2. **the price of each i and the total**
3. **the tax of the tota**
4. **the tip of the total**
5. **decorate the plate**

due by the end of class

Friday January 8, 2016

AGENDA

Warm-Up

Activity: Skittles

HOMEWORK

PRACTICE

WARM UP COPY and SOLVE

1. Change from a decimal to a percent.
   a) 3.4 b) .095 c) .250

2. Solve for x.
   a) $6(x - 3) = 12$ b) $7 - 4x = 43$

3. In 2014, the average temperature in Alaska was 25.7°F. By Oct. 2015, the average temperature was 31.9°F. What percent of the old is the new?


HAPPY HOLIDAYS!!!
SEE YOU IN 2016!!!