

## WARM UP COPY and SOLVE

### **AGENDA**

**Warm-Up**

**Cornell Notes:**

**Sales Tax  
and Tip**

**Are you  
ready?**

**PRACTICE**

**HOMEWORK**

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



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

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.

Be careful! You might only be asked to find out what the tip or tax was and not the final bill.

Use a proportion  
to find tip or tax:

IS = %  
OF 100

## 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

**WARM UP COPY and SOLVE**

**AGENDA**

**Warm-Up**

**Review Hw**

**Quiz**

**Cornell Notes:**

**Discount**

**HOMEWORK**

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**

**STEP 1:**

Convert the percent to a decimal. ( $\div 100$ )

**STEP 2:**

Multiply the original price and decimal.

**STEP 3:**

Subtract discount from original price.

**METHOD 2**

**STEP 1:**

Subtract the percent from 100%.

**STEP 2:**

Convert the percent to a decimal.

**STEP 3:**

Multiply by the original price and decimal.

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 the original price and decimal.

**STEP 3:**

SUBTRACT discount from original price.

**METHOD 2**

**STEP 1:**

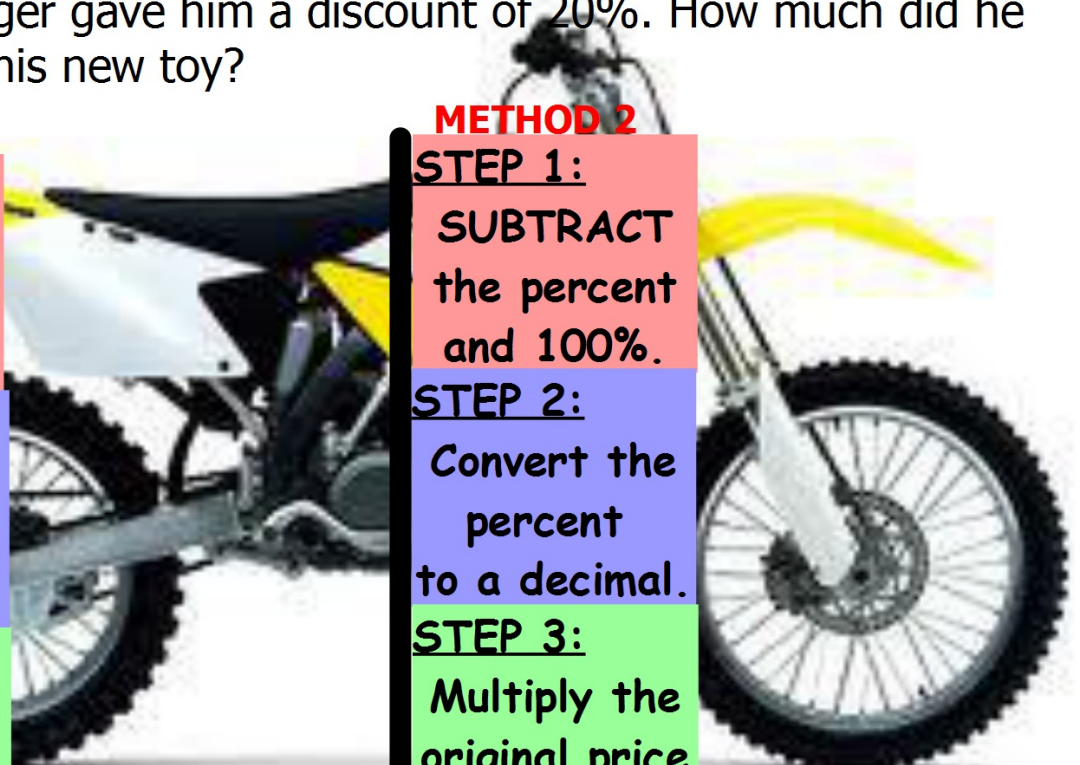
SUBTRACT the percent and 100%.

**STEP 2:**

Convert the percent to a decimal.

**STEP 3:**

Multiply the original price and decimal.



Be careful! You might only be asked to find out how much you saved and not the final bill.

Use a proportion  
to find discount:

IS = %  
OF 100

## WARM UP COPY and SOLVE

### AGENDA

Warm-Up

Cornell Notes:

Discounts

Tax, Tip,  
Discount  
PRACTICE

What's on  
your plate?

HOMEWORK

1. Change from percent to decimal.

a) 34%   b) 95%   c) 12.5%

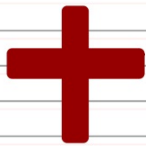
2. Solve for  $x$ .

a)  $2(x + 3) = 14$

b)  $6 - 4x = 32$

3. In 2011, the average temperature in Alaska was  $5^{\circ}\text{F}$ . This year, the average temperature has increased by 40%. What is the average temperature for in 2013?

**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 appropriate 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 18%...**

**find the TAX on  
the original bill**

**find the TIP on  
the original bill**

**ADD both to the  
original bill**

<p style="text-align: center;"><b>NAME OF YOUR RESTAURANT</b></p> <p><b>choose a meal from the menu</b></p> <p><b>appetizer</b></p> <p><b>main meal</b></p> <p><b>drink (2.50 if not given)</b></p> <p><b>dessert</b></p> <p><b>Find the price,</b>  <b>then tax (7.75% of total)</b>  <b>then tip (18% of total)</b></p>	<p><b>RESTAURANT</b></p> <ol style="list-style-type: none"> <li><b>1. what you and your party selected</b>  <b>PM with a 10% off coupon</b></li> <li><b>2. the price of each item and total meal price</b></li> <li><b>3. the tax of the subtotal</b></li> <li><b>4. the tip of the total</b></li> <li><b>5. decorate the plate!!!</b></li> </ol>
<p><b>OPTION 1</b></p> <p><b>Place all your work in the center of the plate</b></p>	<p><b>OPTION 2</b></p> <p><b>Complete on google slides and post in google classroom</b></p>



**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  $25.7^{\circ}\text{F}$ . By Oct. 2015, the average temperature was  $31.9^{\circ}\text{F}$ . What percent of the old is the new?