Jan. 9, 2015

SET-UP (Activate Prior Knowledge & Connect to Challenge Question)
Noise level 0

• S-Sit and organize materials for the lesson… **Get your journal, Springboard book and a sharpened pencil.**

• E-Examine and follow teacher’s directions… **On your next blank page, write today’s date at the top. Title this page ~ Taxes, Tips and Commissions**

• T-Take the challenge! **Write the CQ in journal below the title:**

  **Challenge Question:** What is the difference between tax, tip and commission?

  Use your previous knowledge to answer the CQ in your journal.
LESSON 11-1 PRACTICE

7. 60 students
8. 19.4%
9. $61.76
10. $193.80
11. No 10% of 100 is 10 and 10% of 10 is 1; 20% of 100 is 20, so it is not the same.
12. $3.80
13. 159 girls and 195 boys play sports, so more boys
14. 65 marbles
15. 43.75%
16. 200 students
Assessment

Noise level 0

How long do I have to complete the activity: 15 mins

What do I do? You will complete Lesson 11-1 Quiz over finding the percent of a number.
Taxes, Tips and Commissions
Sales Tax, Tip and Commission

- **Sales Tax** - Percentage of the cost of a good or service paid to a seller. (added to the total cost of the bill)

- **Tip** - a gratuity or a voluntary *additional* payment made for a service.

- **Commission** - The amount of money that an individual receives based on a percentage of sales he or she has obtained. (added to their total salary)
Sales Tax And Tip

1) Find the tip... if needed (usually calculated based on total of bill not including the sales tax)
2) Find the sales tax.
3) Add the food bill, tip, and sales tax.
Calculating Sales Tax

Tax – is the amount our government charges us to buy an item.
Total Cost – is the amount of an item including the tax.
Rate – is talking about a percent (%).

Sales Tax:

Sales tax is 7%. Find the amount of tax on a keyboard that sells for $59.99.

STEP 1
Convert your percent (%) to a decimal.

STEP 2
Multiply by the cost of the item to get the amount of tax!

STEP 3
Round to the nearest cent if necessary.

$7\% = .07$

$59.99 \times .07 = 4.1993$

$4.20$ Tax Amt.
Total Cost Including Tax:

Tammy is buying some items that cost $523. If there is an 8% sales tax rate in Tammy’s state, what is the total cost of the items?

**STEP 1**
Calculate your sales tax.

$523 \times 0.08 = 41.84$

**STEP 2**
Add the tax amount to the cost to get the Total Cost!

$523 + 41.84 = 564.84$

**STEP 3**
Round to the nearest cent if necessary.

$564.84$ Total Cost

Let’s Try Together! 😊

Find the total cost of an item that sells for $138. Sales tax rate: 7.5%

Sales Tax: $138 \times 0.075 =$ Answer: $10.35$

Total Cost: $138 + 10.35 =$ Answer: $148.35$
Finding Sales Tax and Tip

At a restaurant, you order a meal that costs $12. You leave a 20% tip. The sales tax is 5%. What is the total cost of the meal?

Steps:
1) Find the tip. \[20\% \cdot 12 = \$2.40\]
   **You can either multiply $12 by .20 or divide $12 by 5**
2) Find the sales tax. \[5\% \cdot 12 = \$0.60\]
   **You multiply $12 by .05**
3) Add the bill, tip, and tax. \[\$12 + \$2.40 + \$0.60 = \$15\]

The total cost is $15
Finding Sales Tax and Tip

• At a restaurant, you order a meal that costs $8. You leave a 15% tip. The sales tax is 6%. What is the total cost of the meal?

Steps:
1) Find the tip. \( 15\% \cdot 8 = $1.20 \)
   **You multiply $8 by .15**
2) Find the sales tax. \( 6\% \cdot 8 = $0.48 \)
   **You multiply $8 by .06**
3) Add the bill, tip, and tax.

The total cost is $9.68
Complete the Math Café Menu exercise with your partners.

You have 25 minutes 😊
Check Your Understanding

1. A skier needs to buy new ski poles during a ski trip to Utah. The price of the poles is $24 and the sales tax is 4.7%. What is the total cost of the poles, rounded to the nearest cent?

2. Josephina likes the service she receives at her favorite cafe and wants to leave a 20% tip. Her bill is $22.58. What tip should she leave?

3. Film studios make a commission from every ticket sold. The movie tickets at Carbob Theatres cost $8.50. The studios earn a 40% commission. What amount of the movie ticket do they earn?

4. Nick is selling software and earns 12% of his sales as a commission. If he sells a total of $668 in software this week, how much is his commission?

How long do I have to complete the activity: 20 mins

What do I do? You will complete Lesson 11-2 Check Your Understanding on pg. 120. We will go over the correct answers in 20 minutes.
### Wrap-up

**Noise level 0**

<table>
<thead>
<tr>
<th>W- Write homework assignment in planner</th>
<th>(complete Lesson 11-2 Practice #s 5-13 on pg. 120, due next class period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R- Return materials and organize supplies</td>
<td></td>
</tr>
<tr>
<td>A- Assess how well you worked in a group or individually</td>
<td></td>
</tr>
<tr>
<td>Did I/we maintain operating standards?</td>
<td></td>
</tr>
<tr>
<td>Did I/we work toward learning goals?</td>
<td></td>
</tr>
<tr>
<td>Did I/we complete tasks?</td>
<td></td>
</tr>
<tr>
<td>P- Praise one another for high quality work:</td>
<td>tickets for a “P” performance overall</td>
</tr>
</tbody>
</table>