1a.) Your mom sent you to the store to buy a 12-pack of soda. The soda costs $2.52, including tax. How much are you paying for each can of soda? Show the answer and explain your reasoning.

1b.) You paid for the 12-pack of soda with a $10.00 bill. How much change will you get back? Show the answer and explain your reasoning.

The amount of change I will get back is:_______________________
2.) Ana discovered a magical machine in the attic of her house. At the top of the machine, she dropped in some coins and out of the bottom of the machine came more than she put in. Here is what happened when she did this a few times.

<table>
<thead>
<tr>
<th>Coins dropped in</th>
<th>Coins that came out</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>18</td>
</tr>
<tr>
<td>5</td>
<td>30</td>
</tr>
</tbody>
</table>

2a.) Explain the pattern that this magical machine uses.

2b.) Test out the pattern. What if Ana puts in 1 coin? How many coins would come out? Find the answer and explain your reasoning.

2c) What if Ana puts in some coins and 42 come out? How many coins did Ana put in to start? Find the answer and explain your reasoning.
3a.) Your neighbor has 32 boxes of CDs. Each box holds 8 CDs. **Estimate** how many CDs your neighbor has. Explain how you got your estimate.

**Estimate ___________**

**Explain ___________________________________________________________________**

__________________________________________________________________________

3b) **Now find the exact** number of CDs your neighbor has. Write a number sentence for the problem. Explain your reasoning and give the answer.

**Answer __________**

**Explain__________________________________________________________________**

__________________________________________________________________________

__________________________________________________________________________

4.) Write a word problem for 52 ÷ 5 then solve your problem. As you solve the problem explain your reasoning and show your answer. Be sure to tell what you will do with the remainder if there is one.

___________________________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

Solve the problem. **Explain your reasoning:**

**Answer _______________**
5.) This year, the third graders at Lincoln Elementary want to treat the whole school to popcorn. They have 55 popcorn kits. Each kit makes 9 servings of popcorn. Will they have enough servings to give popcorn to 436 students and 17 teachers?

Yes or no? _________

In this box, numbers, words or pictures to show how to find the answer.

6.) Draw 2 different ways to make $1.23 using fewer than 14 coins in each example.

<table>
<thead>
<tr>
<th>Example 1</th>
<th>Example 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of coins used _________</td>
<td>Number of coins used _________</td>
</tr>
</tbody>
</table>
7a.) A fourth grade class is planning a trip to the Zoo. There are 20 students in the class. Tickets to the Zoo cost $3.75. Estimate about how much money the teacher will need to collect for the tickets?

Using numbers show the thinking you used to make your estimate.

Estimate: ________

7b.) If the train ride at the zoo has a special package deal of 10 tickets for $8.75, how much money will be needed for all the students to go on a train ride?

7c.) If the regular price for a train ride is $1.00 per person, exactly how much money is the class saving by buying the special package deal?
8a.) Mark the following fractions from smallest to largest on the number line below:

\[ \frac{1}{2} \quad \frac{1}{4} \quad \frac{3}{8} \quad \frac{3}{4} \quad \frac{7}{5} \quad \frac{1}{4} \quad \frac{3}{8} \]

0

8b.) Which is the largest fraction you placed on the number line? ______________

Explain how you know that this is the largest fraction: ___________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

8c.) What is the smallest fraction you place on the number line? ________

Explain how you know that this is the smallest fraction: ___________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

9.) Write two equivalent fractions for each fraction:

\[ \frac{1}{2} \quad \quad \quad \quad \]

\[ \frac{1}{4} \quad \quad \quad \quad \]
10.) Natalie has 25¢ and her sister has 13¢. How much money can Natalie give to her sister so that they both have the same amount?

Shade in the circle next to your answer.
○ 5¢
○ 6¢
○ 7¢
○ 8¢

Show how you know your answer is correct.

11.) Write your answer to the following problems:

$2.03 - $1.75 = $11.47 + $9.24

$5.00 - $3.58 =

_____ = 32 ÷ 8

28 × 6 = ________
12.) You have a $50.00 gift certificate for books.

Adventure: $6.73  Craft: $5.21  Chapter: $17.43  Pop-up: $15.00  Cookbook: $18.99

12a.) Pick three books that you would like to buy and estimate how much money you will need to buy them.

<table>
<thead>
<tr>
<th>Pick three books that you would like to buy and list them and their price below:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate to the nearest dollar how much money you would need to buy your three books. Show how you got your estimate.</td>
</tr>
</tbody>
</table>

Your estimate:__________________

12b.) You decide to purchase 1 more book. You still can’t spend more than $50.00. Which book will you buy?

Write the book here:_____________________________________

Prove that you don’t spend more than $50.00 on all 4 books. Show your reasoning.
13.) Which is a better deal? Three 10 oz. cans of soup on sale for $1.78 each or one 30 oz. can of soup for $5.55?

Answer _________________________

Explain your reasoning:

14.) Choose the correct mathematical symbol to make the expression true. Write the symbol in the circle.
Choose from    >      <      or    =.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>3/8</td>
<td>4/4</td>
<td>2/2</td>
</tr>
<tr>
<td>1/8</td>
<td>1/16</td>
<td>2/5</td>
<td>3/4</td>
</tr>
<tr>
<td>6/10</td>
<td>3/5</td>
<td>1/3</td>
<td>1/2</td>
</tr>
</tbody>
</table>

15.) Order the following amounts of money from smallest to largest on the number line below:

$0.49  $3.51  $16.07  $9.25  $12.68

$0.00                                                                                                                     $20.00