enVision Math Grade 5- Adapted Notes   Name- _____

Topic 2 Lesson 1- Mental Math

Objective- Compute sums and differences mentally using the Commutative Property, Associative Property, compatible numbers, and compensation.

Vocabulary:

Define- Commutative Property of Addition: When you can add numbers in any _____

- **Example: _____+ _____= _____ +_____**

Define- Associative Property of Addition- the grouping of the numbers being added that could be changed by using _____

- **Example: $11.45+ $3.39+ $9.55= _____+ _____+ _____**

Define- Compatible numbers- numbers that can be easily computed _____.

  *Tip→ when you add 3 or more numbers, look for compatible numbers

- **Example: $11.45+ $3.39+ $9.55= _____+ _____+ _____**

Define- Compensation- adjust one or both numbers to make the computation easier; then compensate *** think of compensation like being on a see-saw

- **Example: $3.47+ $4.35**
        ↓   ↓

        _____+ _____= _____

Define- Equal Additions Property- If the same number is added to each, the difference is the _____

- **Example: $3.69-$1.99**
        ↓   ↓

        _____- _____=

Topic 2 Lesson 2- Rounding Whole #'s and Decimals

Objective- To round whole numbers through millions and decimals through thousandths

Vocabulary:

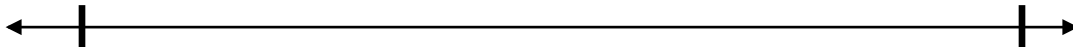**Define: Rounding: replaces one number with _____ _____ that tells _____ how much or how many**

*Remember _____   *Underline the place value that they want you to

_____   round to and then look to the number to the right.

Example

1. **2.36 round to the nearest tenth**

   OPTION 1

   OPTION 2

   # 2.36

   - **Say to yourself→ "is _____, 5 and above or 4 and below?"**

HOMEWORK HELP

   - **The place value that is underlined is going to be the number that is changed. Everything to the right becomes a zero and everything to the left stays the same.**

Topic 2 Lesson 3- Estimating Sums and Differences

<u>**Objective**</u>**: To use rounding and compatible numbers to estimate sums and differences of whole numbers and decimals.**

- **When is estimating helpful in the real world?**
    - **_____, _____, _____**

We have two options when estimating with addition. Look at the chart on page 36. Estimate the sum of the cans collected in weeks three and four.

<u>**Examples:**</u>

1. **Week 3→ _____**
   Week 4→ _____

Option 1	**Option 2**
237→ _____	237→ _____
+345→ _____	+345→ _____
_____	_____
_____	_____

2. **How can you estimate differences?**
   Estimate 22.8- 13.9

Option 1	**Option 2**
Round to the nearest whole #	**Substitute Compatible #'s**
22.8→ _____	22.8→ _____
-13.9→ _____	-13.9→ _____
_____	_____
_____	_____

<u>**HOMEWORK HELP**</u>

- **When to choose Option 1 vs. Option 2**
    - **Use compatible numbers whenever the compatible numbers are closer to the original numbers.**

Topic 2 Lesson 4- Modeling Addition and Subtraction of a Decimal

<u>**Objective**</u>**: To add and subtract decimals in tenths and hundredths using models.**

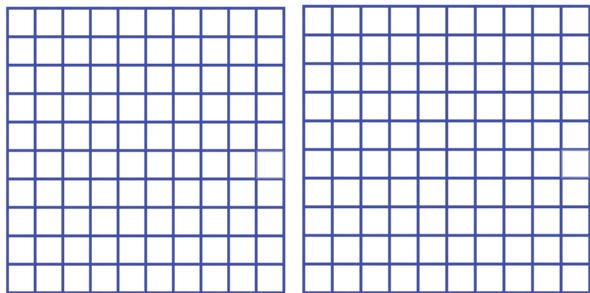**Use the table on page 40 to help answer questions.**

<u>**Examples**</u>

    1. **Find the total monthly cost of using the dishwasher and the DVD player.**
        a. **Dishwasher→ _____**
        b. **DVD player→ _____**

Step 1 for adding   **Step 2 for adding**

Use hundredths grids to add.   **Use another color to color in the addend.**

How do you subtract decimals with grids?
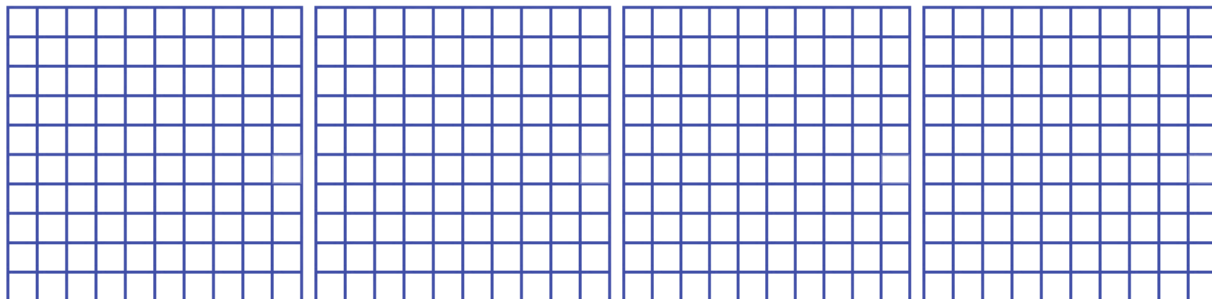
    2. **Find the difference between the cost per month to run the microwave oven and the ceiling light.**
        a. **Microwave→ _____**
        b. **Light→ _____**

Step 1 for subtracting   **Step 2 for subtracting**

Shade in the larger number in the box.   **Cross out the number subtracted.**

enVision Math Grade 5- Adapted Notes   Name- _____

Topic 2 Lesson 5- Draw a Picture and Write an Equation

Objective: Students will use pictures and write equations to help solve problems.

- Whenever writing an equation, we will need to have a letter in the _____ _____. Whatever we DO NOT know will be substituted with a _____.
    - Example→ 7-_____= 3
                        7-_____=3
                        _____-_____

Examples:

1.) **Three friends have music collections. How many more CDs does Susan have than Larry?**
    a. ***See chart on Page 44**

Step 1   **Step 2**   **Step 3**

What do I know?   **What do I need to find out?**   Draw a picture.

_____   _____   S ▭

_____   _____   L ▭

Step 4   **Step 5**

Write an equation   Solve.

_____

2.) **Rori had some balloons and then gave 35 of them away. She now has 21 left. How many balloons did Rori have to start?**

Step 1   **Step 2**   **Step 3**

What do I know?   **What do I need to find out?**   Draw a picture.

_____   _____
_____   _____

Step 4   **Step 5**

Write an equation   Solve.

_____

Topic 2 Lesson 6- Adding Decimals

<u>**Objective**</u>: **To compute sums of decimals involving tenths, hundredths, and thousandths.**

<u>**Vocabulary:**</u>

<u>**Define: Perimeter**</u>- **distance _____ _____ _____**

Locate the chart on page 46 for the times that the swimmers swam.

Examples:

    1.) What was the combined time for the first two legs of the relay race?

<u>**Step 1**</u>	<u>**Step 2**</u>	<u>**Step 3**</u>
Write down the #'s;	**Start at the column farthest to the**	**Add all of the other columns**
Make sure the decimal	**_____ and add;**	**Remember to make sure the**
_____ _____	**Regroup, if necessary**	**_____ is in the sum.**
_____	**_____**	**_____**
+ _____	**+_____**	**+ _____**

    2.) Look at this rectangle and find its perimeter

1.7 cm

8.41 cm

Work: (remember to line up the decimals)

Topic 2 Lesson 7- Subtracting Decimals

<u>**Objective**</u>**: To compute differences of decimals involving tenths, hundredths, and thousandths**

Recall: Difference is associated with what operation? _____

Recall: When up line up the decimal points, you are able to put the digits in the correct places

<u>**Examples:**</u>

1. **What is the difference in the wingspans of the two butterflies on the top of page 48?**

<u>**Step 1**</u>

Write the numbers by

_____ _____ the

decimals.

_____

_____

<u>**Step 2**</u>

Subtract the place value

at the farthest place on the

right. Regroup if needed

_____

- _____

<u>**Step 3**</u>

Subtract the remaining

columns and bring down the

_____.

_____

- _____

2. **Solve using the zero as a placeholder.**

$$4.959$$
$$- \ 1.74 \ \ \ \ \ $$

3. **Solve using the zero as a placeholder.**

$$24.6$$
$$- \ \ 8.27 \ \ \ $$

4. **Subtract using money. $26.32-$5.75**

_____

- _____

***HOMEWORK HELP**

#9 and 25 think estimation

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Topic 2 Lesson 8- Problem Solving: Multiple-Step Problems

Objective: **Use multiple steps to solve a variety of problems.**

Steps to solve these types of problems:

Step 1	**Step 2**	**Step 3**
Read and Understand	**Read and Understand**	**Find and answer hidden question(s)**
What do I know?	**What am I asked to find?**	**This info will give us what we need to solve the problem.**

Examples:

1. **Look at the example at the top of pages 50 and 51 of the textbook.**

Step 1   **Step 2**   **Step 3**

- _____   _____   **Hidden ? #1 _____**
- _____   _____
                         _____

                                                  Hidden ? #2_____

                                                  _____   _____ = _____

2. **Page 50**

Step 1   **Step 2**   **Step 3**

- _____   _____   **Hidden ? #1 _____**
- _____   _____
                         _____

Hidden ? #2 _____

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