Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: 3\_\_

Math: Term Evaluation Study Pack.

**Fractions Review**

Topics to study for the Term Evaluation:

* **Adding mixed number fractions** using the 3 strategies (models, converting to improper fractions, adding wholes then fractions) *See handout in notebook for the strategies.* ***Page 2***
* **Subtracting mixed number fractions** using the 2 strategies (models and converting to improper fractions) *See handout in notebook for the strategies.* ***Page 2***
* **Finding the Lowest Common Denominator (LCD**) to add, subtract and compare fractions with operations and/or word problems. See notebook for examples. **Page 3**
* **Creating a Fraction of the Day** including all the topics we have learnt so far (written form, simplifying, finding equivalent fractions, representing as part of a group, representing as part of a whole, comparing with other fractions by finding the LCD, placing the fraction on a number line, addition and subtraction using mixed numbers and/or improper fractions, converting into an improper fraction. *See example in this review pack, and previous evaluations for help.* ***Page 4***
* **Creating a word problem** (using mixed numbers, addition and/or subtraction, in a real life context) See the final page in this pack for help. **Page 5**
* **Identifying and Correcting Mistakes** with fraction operations. *See handouts in notebook for the strategies.* ***Page 6***

*Which of the topics above do you think you need to practice before the evaluation?*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Operations with Mixed Number Fractions:** Solve the operations below. Remember to show your answer in the simplest form.

|  |  |
| --- | --- |
| **Solve by Converting into Improper** | **Check with Models** |
| **2** $\frac{1}{5}$ **- 1** $\frac{3}{5}$ **= \_\_\_\_\_\_\_\_\_** |  |
| **Solve by Adding Wholes then Fractions**  | **Check by Converting into Improper**  |
| **3** $\frac{3}{7}$ **+ 1** $\frac{3}{7}$ **= \_\_\_\_\_\_\_\_\_** |  |
| **Solve using Models**  | **Check by Converting into Improper**  |
| **3** $\frac{2}{4}$ **- 1** $\frac{3}{4}$ **= \_\_\_\_\_\_\_\_\_** |  |

Need Extra Practice? Solve the operations below in your notebook and check with a different method

**2** $\frac{1}{6}$ **- 1** $\frac{3}{6}$ **= 3** $\frac{2}{4}$ **+ 1** $\frac{3}{4}$ **= 5** $\frac{2}{8}$ **- 3** $\frac{3}{8}$ **=**

**Finding the Lowest Common Denominator to Solve Operations:** If you are completing an addition or subtraction problem remember to show your answer in the simplest form.

|  |  |
| --- | --- |
| $\frac{4}{5}$ - $\frac{2}{4}$ = | $\frac{4}{8}$ - $\frac{2}{7}$ = |
| $\frac{4}{3}$ + $\frac{2}{4}$ = | $\frac{4}{6}$ + $\frac{2}{5}$ = |
| $\frac{1}{2}$ 0 $\frac{2}{7 }$ = | $\frac{4}{5}$ 0 $\frac{2}{6}$ = |

Need extra practice? Answer the operations in your notebook

$\frac{1}{3}$ 0 $\frac{2}{9 }$ = $\frac{4}{2}$ + $\frac{2}{9}$ = $\frac{1}{2}$ - $\frac{1}{8}$ =

$\frac{1}{6}$ 0 $\frac{2}{4 }$ = $\frac{4}{7}$ + $\frac{2}{4}$ = $\frac{4}{8}$ - $\frac{2}{10}$ =

**Fraction of the Day :** Complete the format below.

Subtraction (Mixed Number or Improper):

Create a number line and place the fraction on it:

Comparison to other fractions using LCD:

Addition (Mixed Number or Improper):

Create 2 Equivalent Fractions:

Find the Simplest Form:

Represent as part of a whole:

Represent as part of a group:

Word Form:

$$\frac{2}{8}$$

**Creating Word Problems with Mixed Numbers**: You will have to create word problems in a realistic context. You should be able to create word problems using **improper/mixed number fractions** with subtraction and/or addition.

1. Write a list of objects that could be used in word problems to represent **part of a whole**:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Write a list of objects that could be used in word problems to represent **part of a group:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Create a **mixed number** word problem below using **subtraction:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Create a **mixed number** word problem below using **addition: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Create a **mixed number** word problem below using **addition AND subtraction:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Check:** *Did you use an improper or mixed number fraction? Did you use an object from the lists above? Did you use keywords for addition and/or subtraction?*

*Finished? Solve a friends word problem in you notebook using the POLYA chart.*

**Identifying and Correcting Mistakes:** You need to be able to identify mistakes in operations in your evaluation. You should identify the mistake (circle it), explain what the mistake is and correct it.

**Example 1:**

Circle the mistake: $\frac{6}{8}$ - $\frac{2}{8}$ = $\frac{4}{8}$ **Rework:**

Mistake: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 2:**

Circle the mistake: 1 $\frac{2}{4}$ + 3 $\frac{2}{8}$ = 4 $\frac{4}{12}$ **Rework:**

Mistake: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 3:**

Circle the mistake: 2 $\frac{2}{5}$ - 1 $\frac{3}{5}$ = 1 $\frac{0}{5}$ | **Rework:**

Mistake: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write down all the rules you know for fractions below. The first one has been done for you:**

1. Like denominators are not added or subtracted.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_