Name:_____ Date:_____

5th Grade Unit 4 Partial Numbers
Pre-Assessment

The purpose of this pre-assessment is to show your teacher what you already know about math. How exciting! There will be many items that you do not know how to solve yet, and that is okay! Take time to show your mathematical thinking.

5.NBT.B.7 *Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.*

Directions: For each of the following expressions, change it to an equation and solve. Show all of your work.

1. 320.5 + 138.54	**2. 58.05 – 3.1**
3. 42.5 – 32.75	**4. 31 + 17.92**

5. Rosa has $60.33 in her savings account. She takes out $12.69 from the account. How much money is left in Rosa's account? Show how you solved the problem and explain your reasoning using a picture, equation, or words.

6. You walked into a clothing store with a $100.00 bill. You bought a coat for $45.63 and a shirt for $22.89. How much money did you leave the store with? Show how you solved the problem and explain your reasoning using a picture, equation or words.

7. My friend, Jalen, and I went to the gym to swim some laps. I swam for a total of 45.24 minutes, and Jalen swam for 20.36 minutes. How many minutes did we both swim? Show how you solved the problem and explain your reasoning using a picture, equation or words.

5.NF.A.2 *Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominator.*

8. During a visit to an orchard, Debbie picked $\frac{1}{5}$ of a bag of Golden Delicious apples, $\frac{1}{5}$ of a bag of Macintosh apples, and $\frac{3}{5}$ of a bag of Cortland apples. How many bags of fruit did Debbie pick in total? **Show a visual model to represent your thinking.**

9. A cookie recipe calls for $\frac{3}{4}$ cup of white sugar and $\frac{2}{3}$ cup of brown sugar. How many cups of all types of sugar do the cookies require? **Show a visual model to represent your thinking.**

10. Five friends ordered three sandwiches. James ate $\frac{3}{4}$ of a sandwich. Katya ate $\frac{1}{4}$ of a sandwich. Ramon ate $\frac{3}{4}$ of a sandwich. Sienna ate $\frac{2}{4}$ of a sandwich. How much sandwich is left for Oscar? **Show a visual model to represent your thinking.**

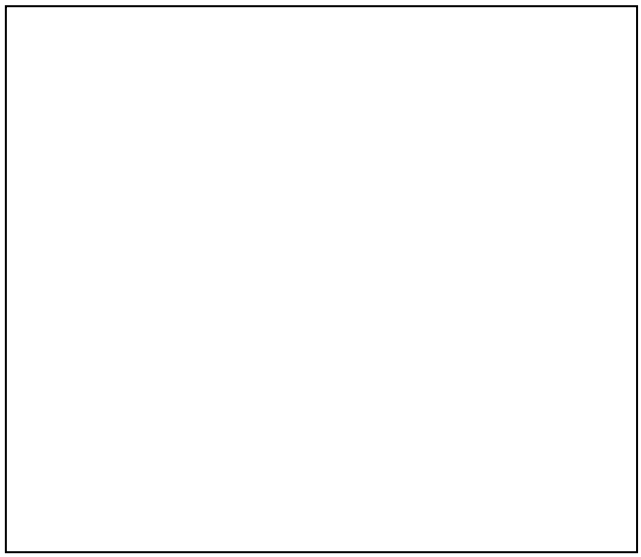
11. Anita ran $\frac{3}{4}$ of a mile and walked $\frac{3}{8}$ of a mile. How much farther did Anita run than walk? Show how you solved the problem and explain your reasoning using a picture, equation or words.

12. During a canned food drive, items were sorted into bins. The drive resulted in $\frac{1}{3}$ of a bin of soup, $\frac{3}{4}$ of a bin of vegetables, and $\frac{1}{8}$ of a bin of pasta. How many bins of food were there total? Show how you solved the problem and explain your reasoning using a picture, equation or words.

13. At the beach, Gavin and his sister both built sandcastles and then measured their heights. Gavin's sandcastle was $3\frac{7}{8}$ feet tall and his sister's was $2\frac{3}{8}$ feet tall. How much taller was Gavin's sandcastle than his sister's? Show how you solved the problem and explain your reasoning using a picture, equation or words.

14. Tianna wrote that $\frac{2}{3} + \frac{3}{4} = \frac{5}{7}$ Explain how you know this is inaccurate. Use words and pictures to illustrate your thinking so that others can understand.

15. Janice has a square wooden board with dimensions of 1 foot by 1 foot. She wants to make a rectangular sign with dimensions $\frac{5}{6}$ foot by $\frac{2}{3}$ foot by making two straight cuts to the board. Use the diagram below to show where she should make the two cuts. Clearly label diagram so that others would know exactly where to cut.



The table below shows the length of ribbon, in yards, needed for various projects. Use the table below to solve problems 16 & 17. Show all of your work.

Project	**Length of ribbon needed in yards**
Flower	$1\frac{3}{4}$
Bulletin board	$3\frac{1}{3}$
Costume	2
Puppet	$2\frac{1}{2}$
Mask	$\frac{1}{3}$
Picture Frame	$\frac{1}{4}$

16. Susan has 4 yards of ribbon and wants to make as many different art projects as possible. Which art projects can Susan make that will use exactly 4 yards of ribbon altogether?

17. Lance has $3\frac{2}{3}$ yards of ribbon. He is making a puppet. How much ribbon in yards will Lance have left? Use an equation to solve.