Are you ready to **LEARN**?

Mission 2

Measure It

Name:____________________________________________
Name:____________________________________________

**Weekly Goal Tracker**

<table>
<thead>
<tr>
<th>Week of:</th>
<th>My goal is to earn badges for lessons:</th>
<th>Teacher Signature:</th>
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<tr>
<th>Week of:</th>
<th>My goal is to earn badges for lessons:</th>
<th>Teacher Signature:</th>
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<td>My goal is to earn badges for lessons:</td>
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Name: __________________________________________________

**Mission 2: Workbook Checklist**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date:</th>
<th>Teacher Signature:</th>
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<tbody>
<tr>
<td>1. On Second Thought</td>
<td></td>
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<tr>
<td>Learning Lab:</td>
<td></td>
<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<tr>
<td>2. Imagine Intervals</td>
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<tr>
<td>Math Chat:</td>
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<td>✨ Exit Ticket</td>
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<td>Teacher Signature:</td>
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<tr>
<td>3. Line Up, Round Up</td>
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<tr>
<td>Math Chat:</td>
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<td>✨ Exit Ticket</td>
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<td>Teacher Signature:</td>
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<tr>
<td>4. Time Travel</td>
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<tr>
<td>Math Chat:</td>
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<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<td>5. On Line Time</td>
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<td>Z-Squad:</td>
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<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<tr>
<td>6. Any Way You Slice It</td>
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<tr>
<td>Learning Lab:</td>
<td></td>
<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<tr>
<td>7. Weight and See</td>
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<tr>
<td>Learning Lab:</td>
<td></td>
<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<tr>
<td>8. Weight and Solve</td>
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<td>Z-Squad:</td>
<td></td>
<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<tr>
<td>9. Waterworks</td>
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<tr>
<td>Math Chat:</td>
<td></td>
<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<tr>
<td>10. A Measured Approach</td>
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<tr>
<td>Learning Lab:</td>
<td></td>
<td>✨ Exit Ticket</td>
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<td>Date:</td>
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<td>Teacher Signature:</td>
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<td>Date:_____  Teacher Signature:__________</td>
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<tr>
<td>11.</td>
<td>Treasure Every Measure</td>
<td>Z-Squad:</td>
</tr>
<tr>
<td>12.</td>
<td>Round About!</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>13.</td>
<td>Top Ten</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>14.</td>
<td>Line Dance</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>15.</td>
<td>Math Magician Composition</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>16.</td>
<td>Rename That Unit</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>17.</td>
<td>Up and Down</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>18.</td>
<td>Do You Have Enough?</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>19.</td>
<td>Ready, Set, Subtract</td>
<td>Math Chat:</td>
</tr>
<tr>
<td>20.</td>
<td>What’s the Difference?</td>
<td>Learning Lab:</td>
</tr>
<tr>
<td>21.</td>
<td>All Together Measure</td>
<td>Z-Squad:</td>
</tr>
</tbody>
</table>
1. The table below shows how much time it takes each of the 5 students to do 15 jumping jacks.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Maya</td>
<td>16 seconds</td>
</tr>
<tr>
<td>Riley</td>
<td>15 seconds</td>
</tr>
<tr>
<td>Jake</td>
<td>14 seconds</td>
</tr>
<tr>
<td>Nicholas</td>
<td>15 seconds</td>
</tr>
<tr>
<td>Adeline</td>
<td>17 seconds</td>
</tr>
</tbody>
</table>

a. Who finished 15 jumping jacks the fastest?

____________________________

b. Who finished their jumping jacks in the exact same amount of time?

____________________________

c. How many seconds faster did Jake finish than Adeline?

____________________________
Christine has 12 math problems for homework. It takes her 5 minutes to complete each problem.

How many minutes does it take Christine to finish 4 problems?

_SHOW YOUR WORK_

It takes Christine _____ minutes to do 4 math problems.
1. The number line below shows a math class that begins at 10:00 a.m. and ends at 11:00 a.m. Use the number line to answer the following questions.

a. What time do Sprints begin?

b. What time do students begin the Application Problem?

c. What time do students work on the Exit Ticket?

d. How long is math class?
Ethan arrived at school at 8:37 a.m. Label the first and last tick marks 8:00 a.m. and 9:00 a.m.

Then, plot a point to show when Ethan arrived at school.

SHOW YOUR WORK

( _____ × _____ ) + _____
1. The clock shows what time Jason gets to school in the morning.

   a. What time did Jason get to school?

      ____________________________

   b. The first bell rings at 8:23 a.m. Draw hands on the clock to show when the first bell rings.

      ____________________________
c. Label the first and last tick marks 8:00 a.m. and 9:00 a.m. Plot a point to show when Jason arrives at school. Label it “A.” Plot a point on the line when the first bell rings and label it “B.”
Ms. Lawrie started jogging at 7:12 a.m. She finished jogging at 7:53 a.m.

How many minutes did Ms. Lawrie jog?

SHOW YOUR WORK

Start time: 7:00 a.m.   End time: 8:00 a.m.

Ms. Lawrie jogged for _____ minutes.
1. Independent reading time starts at 1:34 p.m. It ends at 1:56 p.m.
   a. Draw the start time on the clock below.

   ![Start Time Clock](image)

   b. Draw the end time on the clock below.

   ![End Time Clock](image)

   c. How many minutes does independent reading time last?

   ____________
Joey spends 45 minutes on homework every day. He spends 14 minutes doing math and 20 minutes reading. He spends the rest of the time on science homework.

How many minutes does Joey spend doing science homework every day?

Joey spends ____ minutes doing science homework every day.
Shane’s family wants to start eating dinner at 5:45 p.m. It takes him 15 minutes to set the table and 7 minutes to help put the food out.

If Shane starts setting the table at 5:25 p.m., will his chores be finished by 5:45 p.m.?

Will Shane finish his chores in time for dinner? □ Yes □ No
1. Michael spends 19 minutes on his math homework and 17 minutes on his science homework. How many minutes does Michael spend doing his homework?

Model the problem on the number line, and write an equation to solve.

SHOW YOUR WORK

Michael spends _____ minutes on his homework.
1. Ten bags of sugar weigh 1 kilogram. Each bag weighs the same amount.

   How many grams does each bag of sugar weigh?

   SHOW YOUR WORK
1. Read and write the weights below. Write the word “kilogram” or “gram” with the measurement.
2. Circle the correct unit of weight for each estimation.

a. An orange weighs about 200 (grams / kilograms).

b. A basketball weighs about 624 (grams / kilograms).

c. A brick weighs about 2 (grams / kilograms).

d. A small packet of sugar weighs about 4 (grams / kilograms).

e. A tiger weighs about 190 (grams / kilograms).
1 A bag of beans weighs 47 grams, and a bag of popcorn kernels weighs 26 grams.

What is the total weight of the beans and kernels?

The total weight of the beans and kernels is _______.
Mr. Smith wants to enter his pumpkin into a giant pumpkin contest. The minimum weight to enter the contest is 42 kilograms. Mr. Smith’s pumpkin weighs 16 kilograms less than the minimum weight.

How many kilograms does Mr. Smith's pumpkin weigh?

Mr. Smith's pumpkin weighs ________.
1. The weights of a backpack and suitcase are shown below.

   ![Image of a backpack and a suitcase]

   - 7 kg
   - 21 kg

   a. How much heavier is the suitcase than the backpack?

      ___________________________________________________________________

   b. What is the total weight of 4 identical backpacks?

      ___________________________________________________________________

   c. How many backpacks weigh the same as one suitcase?

      ___________________________________________________________________
We want to partition 100 mL into 10 equal parts.

How many milliliters should we pour in each cup?

**SHOW YOUR WORK**

**DIVISION SENTENCE**

\[ \text{_________} \div \text{_________} = \text{_________} \]

**ANSWER SENTENCE**

We should pour \[ \text{_________} \] into each cup.
Name: ___________________________ Date: __________
Complete: [ ] Class: __________

1. Morgan fills a 1-liter jar with water from the pond. She uses a 100-milliliter cup to scoop water out of the pond and pour it into the jar. How many times will Morgan scoop water from the pond to fill the jar?

SHOW YOUR WORK
2. How many groups of 10 milliliters are in 1 liter? Explain.

SHOW YOUR WORK

There are ______ groups of 10 mL in 1 liter.
1. Use the number line to record the capacity of the containers.

<table>
<thead>
<tr>
<th>Container</th>
<th>Capacity in Liters</th>
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<tbody>
<tr>
<td>A</td>
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<tr>
<td>B</td>
<td></td>
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<tr>
<td>C</td>
<td></td>
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</tbody>
</table>

2. What is the difference between the capacity of Container A and Container C?
A mouse and a hamster are on a scale.

A. If the mouse weighs 34 grams, what does the hamster weigh?

B. How much more does the hamster weigh than the mouse?

The hamster weighs _______ more than the mouse.
A pitcher of shaved ice needs 5 milliliters of food coloring to turn red.

How many milliliters of food coloring are needed to make 9 pitchers of shaved ice red?

__________ of food coloring are needed.
1. The capacities of three cups are shown below.

![Cups A, B, and C with their capacities](image)

**a.** Find the total capacity of the three cups.

**b.** Bill drinks exactly half of Cup B. How many milliliters are left in Cup B?

**c.** Anna drinks 3 cups of tea from Cup A. How much tea does she drink in total?
1 Kayla reads for 45 minutes.

Round how long Kayla spends reading to the nearest 10 minutes. Model your thinking on a vertical number line.

SHOW YOUR WORK

Kayla reads for about _____ minutes.
1. The weight of a golf ball is shown here.

a. The golf ball weighs __________.

b. Round the weight of the golf ball to the nearest ten grams. Model your thinking on the number line.

c. The golf ball weighs about __________.

d. Explain how you used the halfway point on the number line to round to the nearest ten grams.

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
Round 212 to the nearest ten. Use the number line to model your thinking.

\[ 212 \approx \]
Lesson 13
G:3 M:2

EXIT TICKET

Name: ____________________________  Date: ____________
Complete: □  Class: ____________

1. Round to the nearest ten. Use the number line to model your thinking.

a. 26 ≈ ________

b. 276 ≈ ________
2. Bobby rounds 603 to the nearest ten. He says it is 610. Is he correct? Why or why not? Use a number line and words to explain your answer.

SHOW YOUR WORK
1. Round 2,146 to the nearest hundred. Use the number line to model your thinking.

2,146 \approx \underline{______}
1. Round to the nearest hundred. Use the number line to model your thinking.

   a. $137 \approx \underline{100}$
   
   b. $1,761 \approx \underline{1,800}$
2. There are 685 people at the basketball game. Draw a vertical number line to round the number of people to the nearest hundred people.

SHOW YOUR WORK
Lesson 15
G:3 M:2
Math Magician Composition
ZEARN STUDENT NOTES

Name:__________________________________ Date:______________
Complete:  Class:______________

1 Use the place value chart to help you solve in the addition algorithm.

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<th>ones</th>
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55
1. Find the sums below. Choose mental math or the algorithm.

   a. \(24 \text{ cm} + 36 \text{ cm}\)

   b. \(562 \text{ m} + 180 \text{ m}\)

   c. \(345 \text{ km} + 239 \text{ km}\)
2. Brianna jogs 15 minutes more on Sunday than Saturday. She jogged 26 minutes on Saturday.

a. How many minutes does she jog on Sunday?

b. How many minutes does she jog in total?
1 Solve 158 + 266.
Show your work on the addition algorithm.
1. Find the sums below.

   a. $78 \text{ g} + 29 \text{ g}$

   b. $328 \text{ kg} + 289 \text{ kg}$

   c. $509 \text{ L} + 293 \text{ L}$
2. The third-grade class sells lemonade to raise funds. After selling 58 liters of lemonade in 1 week, they still have 46 liters of lemonade left. How many liters of lemonade did they have at the beginning?

SHOW YOUR WORK
Lesson 17
Up and Down
ZEARN STUDENT NOTES

Name: ___________________________ Date: __________
Complete: [ ] Class: __________

1. Find the actual sums. Then, round each addend to the nearest hundred, and find the estimated sums.

a. 248 + 146 = _____
b. 251 + 146 = _____
c. 251 + 151 = _____

____ + ____ = ____  ____ + ____ = ____  ____ + ____ = ____

ACTUAL SUMS
1. Jesse practices the trumpet for a total of 165 minutes during the first week of school. He practices for 245 minutes during the second week.

   a. Estimate the total amount of time Jesse practices by rounding to the nearest 10 minutes.

   b. Estimate the total amount of time Jesse practices by rounding to the nearest 100 minutes.

   c. Explain why the estimates are so close to each other.

      _______________________________________________________
      _______________________________________________________
      _______________________________________________________
      _______________________________________________________
1. Solve the subtraction problems below.

   a. $381 \text{ mL} - 146 \text{ mL}$

   b. $730 \text{ m} - 426 \text{ m}$

   c. $509 \text{ kg} - 384 \text{ kg}$
2. The total length of a banner is 408 centimeters. Carly paints it in 3 sections. The first 2 sections she paints are 187 centimeters long altogether. How long is the third section?
David is driving from Los Angeles to San Francisco. The total distance is 617 kilometers. He has 468 kilometers left to drive.

How many kilometers has he driven so far?

David has driven _____ kilometers.
1. Solve the subtraction problems below.

   a. 346 m – 187 m
   
   b. 700 kg – 592 kg
2. The farmer’s sheep weighs 647 kilograms less than the farmer’s cow. The cow weighs 725 kilograms. How much does the sheep weigh?

SHOW YOUR WORK

72
1. Kathy buys a total of 416 grams of frozen yogurt for herself and a friend. She buys 1 large cup and 1 small cup.

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Large Cup</td>
<td>363 grams</td>
</tr>
<tr>
<td>Small Cup</td>
<td>? grams</td>
</tr>
</tbody>
</table>

a. Estimate how many grams are in the small cup of yogurt by rounding.

SHOW YOUR WORK
b. Estimate how many grams are in the small cup of yogurt by rounding in a different way.

SHOW YOUR WORK


c. How many grams are actually in the small cup of yogurt?

SHOW YOUR WORK


d. Is your answer reasonable? Which estimate was closer to the exact weight? Explain why.

EXPLAIN YOUR ANSWER

___________________________________________________________

___________________________________________________________

___________________________________________________________

___________________________________________________________
1. Estimate, then find the total weight of the beans and rice.

**Beans**: 91 g  
**Rice**: 58 g

**ESTIMATE**

\[ \_ + \_ \approx \_ + \_ = \_ \]

**ACTUAL**

Is your answer reasonable?

\[ \_ \]

\[ \_ \]

\[ \_ \]

\[ \_ \]
Estimate, then find the difference between the weight of the beans and rice.

The beans weigh _____ grams more than the rice.
1. Rogelio drinks water at every meal. At breakfast, he drinks 237 milliliters. At lunch, he drinks 300 milliliters. At dinner, he drinks 177 milliliters.

   a. Estimate the total amount of water Rogelio drinks. Then, find the actual amount of water he drinks at all three meals.

   b. Estimate how much more water Rogelio drinks at lunch than at dinner. Then, find how much more water Rogelio actually drinks at lunch than at dinner.
Congratulations!
You completed
Grade 3 Mission 2
Measure It

Name

Date

гадыша Zlearned it! 🐮