# Are you ready to ≥EARN?

# Measure It

Name:_____

Name:_____

## Weekly Goal Tracker

| Week of: | My goal is to earn badges for lessons:<br><br>_____  _____  _____  _____ | Teacher Signature: |
|---|---|---|
| Week of: | My goal is to earn badges for lessons:<br><br>_____  _____  _____  _____ | Teacher Signature: |
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Name:_____

## Weekly Goal Tracker

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Name:_____

## **Mission 2:** Workbook Checklist

| **1. On Second Thought** | Date:_____ | Teacher Signature:_____ |

**Learning Lab:** ⭕ **Exit Ticket**

| **2. Imagine Intervals** | Date:_____ | Teacher Signature:_____ |

**Math Chat:** ⭕ **Notes** ⭕ **Exit Ticket**

| **3. Line Up, Round Up** | Date:_____ | Teacher Signature:_____ |

**Math Chat:** ⭕ **Notes** ⭕ **Exit Ticket**

| **4. Time Travel** | Date:_____ | Teacher Signature:_____ |

**Math Chat:** ⭕ **Notes** ⭕ **Exit Ticket**

| **5. On Line Time** | Date:_____ | Teacher Signature:_____ |

**Z-Squad:** ⭕ **Notes** ⭕ **Exit Ticket**

| **6. Any Way You Slice It** | Date:_____ | Teacher Signature:_____ |

**Learning Lab:** ⭕ **Exit Ticket**

| **7. Weight and See** | Date:_____ | Teacher Signature:_____ |

**Learning Lab:** ⭕ **Exit Ticket**

| **8. Weight and Solve** | Date:_____ | Teacher Signature:_____ |

**Z-Squad:** ⭕ **Notes** ⭕ **Exit Ticket**

| **9. Waterworks** | Date:_____ | Teacher Signature:_____ |

**Math Chat:** ⭕ **Notes** ⭕ **Exit Ticket**

| **10. A Measured Approach** | Date:_____ | Teacher Signature:_____ |

**Learning Lab:** ⭕ **Exit Ticket**

**11. Treasure Every Measure**    Date:_____    Teacher Signature:_____

     **Z-Squad:**      O **Notes**      O **Exit Ticket**

**12. Round About!**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Notes**      O **Exit Ticket**

**13. Top Ten**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Notes**      O **Exit Ticket**

**14. Line Dance**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Notes**      O **Exit Ticket**

**15. Math Magician Composition**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Notes**      O **Exit Ticket**

**16. Rename That Unit**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Exit Ticket**

**17. Up and Down**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Notes**      O **Exit Ticket**

**18. Do You Have Enough?**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Exit Ticket**

**19. Ready, Set, Subtract**    Date:_____    Teacher Signature:_____

     **Math Chat:**      O **Notes**      O **Exit Ticket**

**20. What's the Difference?**    Date:_____    Teacher Signature:_____

     **Learning Lab:**      O **Exit Ticket**

**21. All Together Measure**    Date:_____    Teacher Signature:_____

     **Z-Squad:**      O **Notes**      O **Exit Ticket**

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

1. The table below shows how much time it takes each of the 5 students to do 15 jumping jacks.

| | |
|---|---|
| Maya | 16 seconds |
| Riley | 15 seconds |
| Jake | 14 seconds |
| Nicholas | 15 seconds |
| Adeline | 17 seconds |

   **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?

   _____

| Lesson 2 G:3 M:2 | Imagine Intervals |
|---|---|
| | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

**1** 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**

60 minutes

| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
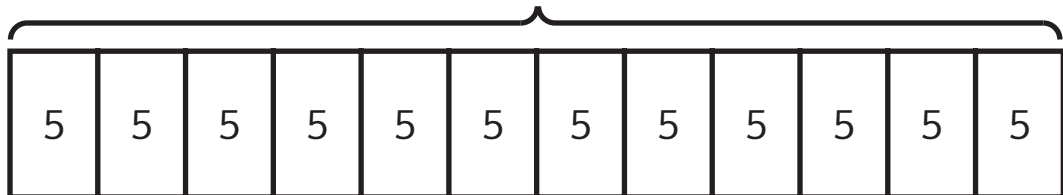
It takes Christine _____ minutes to do 4 math problems.

Name:_____ Date:_____

Complete: ☐ Class:_____

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.
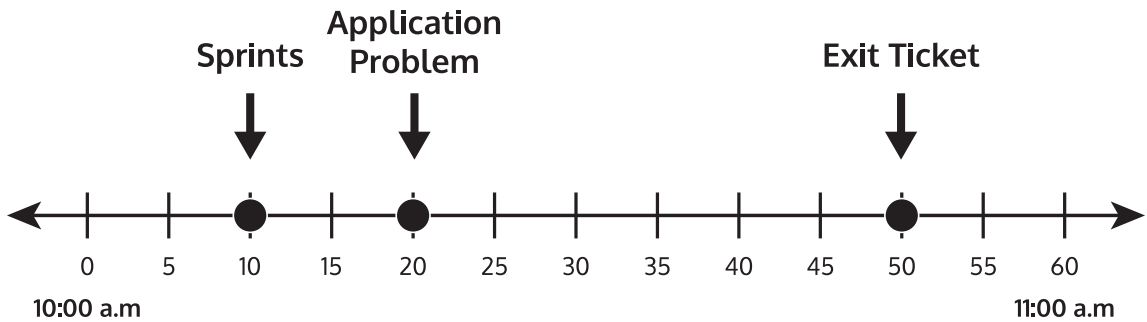


a. What time do Sprints begin?

_____

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?

_____

| **Lesson 3**<br>**G:3 M:2** | **Line Up, Round Up** |
|---|---|
| | **ZEARN STUDENT NOTES** |

Name:_____ Date:_____

Complete: ☐          Class:_____

**1** 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**

( _____ × _____ ) + _____

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

1. The clock shows what time Jason gets to school in the morning.

   **Arrival at School**

   **a.** What time did Jason get to school?

   _____
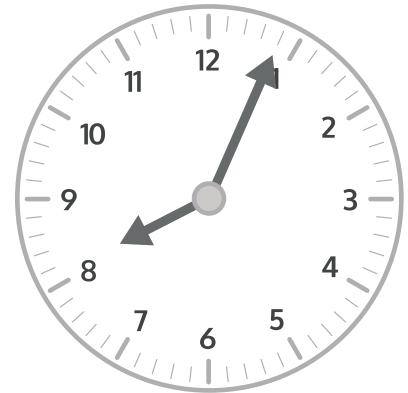
   **First Bell Rings**

   **b.** The first bell rings at 8:23 a.m. Draw hands on the clock to show when the first bell rings.
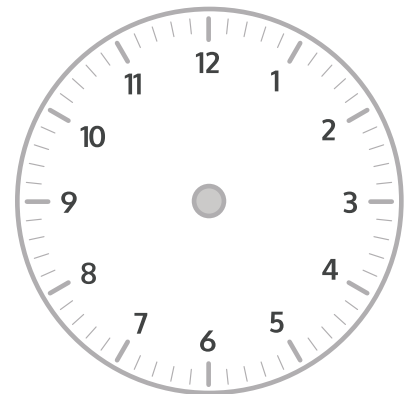
**c.** Label the first and last tick marks 8:00 a.m. and 9:00 a.m. Plot a point to show when Jason arrives at school. Label it "A." Plot a point on the line when the first bell rings and label it "B."
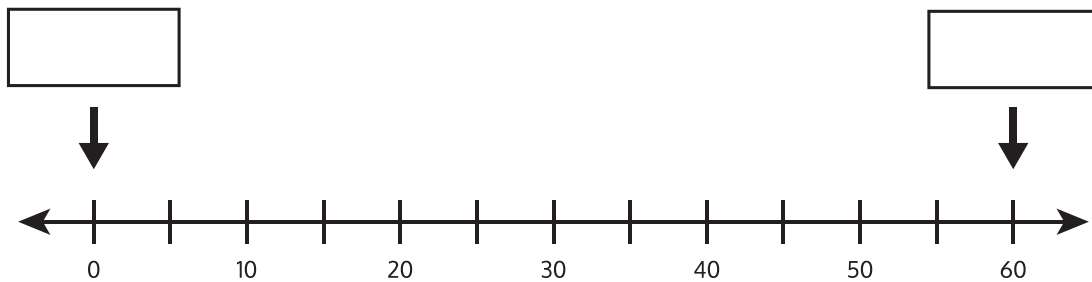
| **Lesson 4** G:3 M:2 | **Time Travel** |
|---|---|
| | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

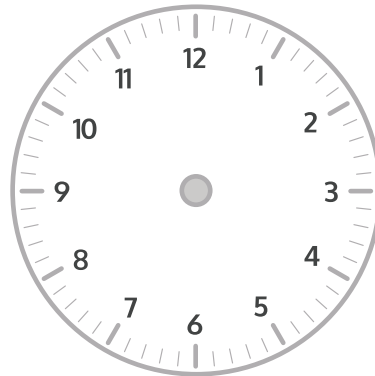**1** Ms. Lawrie started jogging at 7:12 a.m. She finished jogging at 7:53 a.m.
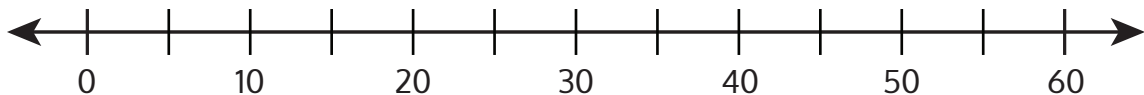
How many minutes did Ms. Lawrie jog?

**SHOW YOUR WORK**
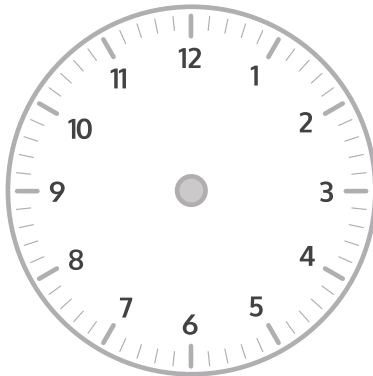
Start time: End time:

7:00 a.m.                                                                    8:00 a.m.

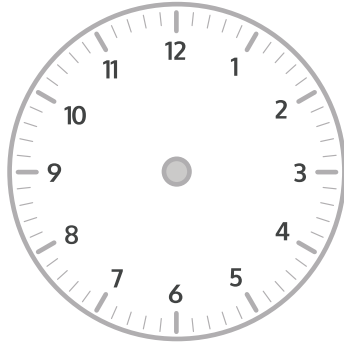0        10        20        30        40        50        60

Ms. Lawrie jogged for _____ minutes.

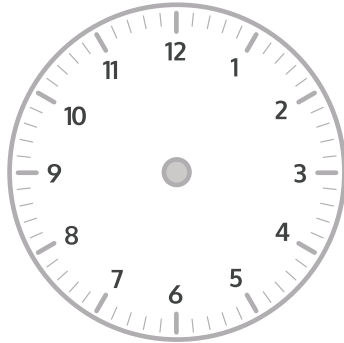**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

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.

   **b.** Draw the end time on the clock below.

   **c.** How many minutes does independent reading time last?

   _____

| **Lesson 5** G:3 M:2 | **On Line Time** |
| --- | --- |
| | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

**1** 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?

DRAW

SOLVE

Joey spends ____ minutes doing science homework every day.

**2** 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.?

**DRAW**

**SOLVE**

Will Shane finish his chores in time for dinner?  ☐ Yes

☐ No

Name:_____ Date:_____

Complete: ☐            Class:_____

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**
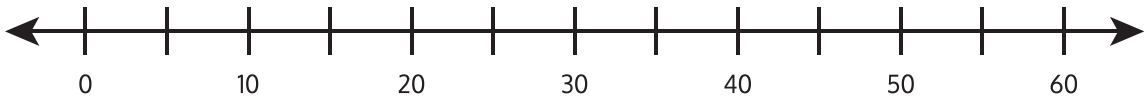


Michael spends _____ minutes on his homework.

Name:_____ Date:_____

Complete: ☐ Class:_____

1. Ten bags of sugar weigh 1 kilogram. Each bag weighs the same amount.

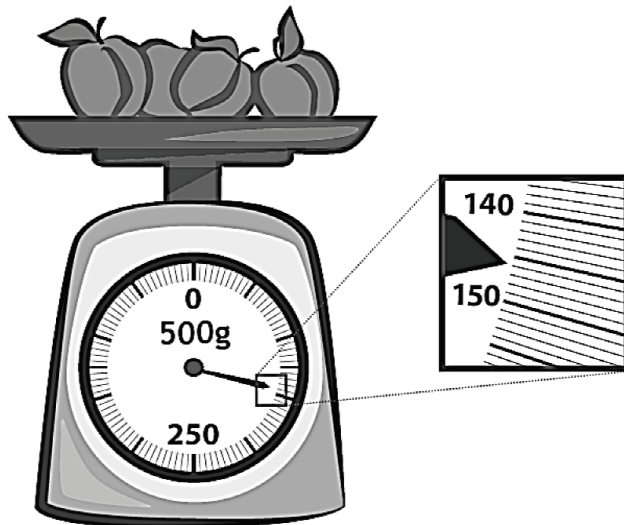   How many grams does each bag of sugar weigh?
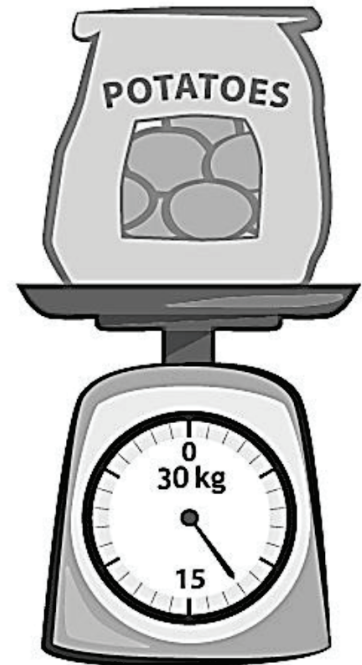
   **SHOW YOUR WORK**

Name:_____ Date:_____

Complete: ☐    Class:_____

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 ).

<table>
<tr><td rowspan="2">**Lesson 8**<br>**G:3 M:2**</td><td>**Weight and Solve**</td></tr>
<tr><td>**ZEARN STUDENT NOTES**</td></tr>
</table>

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

**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?

**DRAW**

**SOLVE**

The total weight of the beans and kernels is _____ .

**2** 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?

**DRAW**

**SOLVE**

Mr. Smith's pumpkin weighs _____.

Name:_____ Date:_____

Complete: ☐ Class:_____

1. The weights of a backpack and suitcase are shown below.



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?

   _____

<table>
<tr><td rowspan="2"><strong>Lesson 9</strong><br><strong>G:3 M:2</strong></td><td><strong>Waterworks</strong></td></tr>
<tr><td><strong>ZEARN STUDENT NOTES</strong></td></tr>
</table>

Name:_____ Date:_____

Complete: ☐                                     Class:_____

**1** We want to partition 100 mL into 10 equal parts.

How many milliliters should we pour in each cup?

**SHOW YOUR WORK**

**DIVISION SENTENCE**

_____ ÷ _____ = _____

**ANSWER SENTENCE**

We should pour _____ into each cup.

## Lesson 9
G:3 M:2

## EXIT TICKET

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.

There are _____ groups of 10 mL in 1 liter.

Name:_____ Date:_____

Complete: ☐    Class:_____

**1.** Use the number line to record the capacity of the containers.

| Container | Capacity in Liters |
|-----------|--------------------|
| A         |                    |
| B         |                    |
| C         |                    |
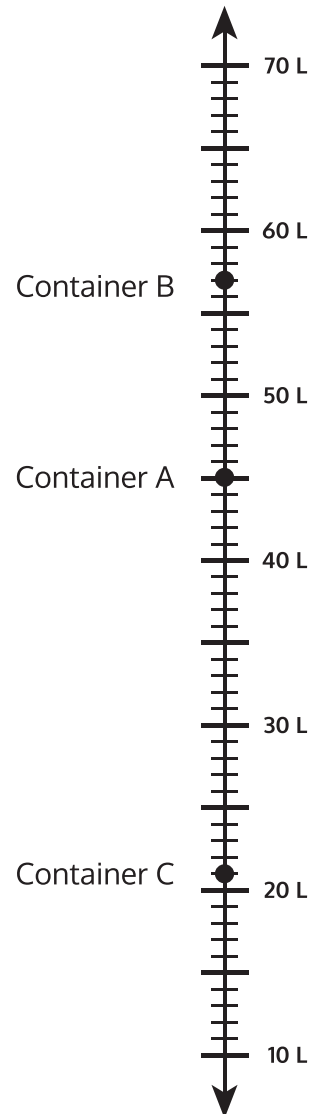
**2.** What is the difference between the capacity of Container A and Container C?

70 L

60 L

Container B ●

50 L

Container A ●

40 L

30 L

Container C ●  20 L

10 L

| **Lesson 11** G:3 M:2 | **Treasure Every Measure** |
| --- | --- |
| | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐                                                        **Class:**_____

**1** A mouse and a hamster are on a scale.

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

**158g**

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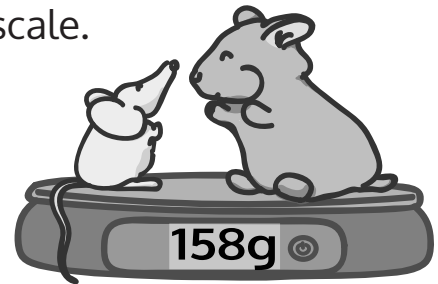
**B.** How much more does the hamster weigh than the mouse?

DRAW

SOLVE

The hamster weighs _____ more than the mouse.

**2** 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?

**DRAW**

**SOLVE**

_____ of food coloring are needed.

Name:_____ Date:_____

Complete: ☐                                                    Class:_____

1. The capacities of three cups are shown below.

Cup A
160 mL

Cup B
280 mL

Cup C
237 mL

**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?

<table>
<tr><td><b>Lesson 12</b><br><b>G:3 M:2</b></td><td><b>Round About!</b></td></tr>
<tr><td></td><td><b>ZEARN STUDENT NOTES</b></td></tr>
</table>

**Name:**_____ **Date:_____**

**Complete:** ☐ **Class:_____**

**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**
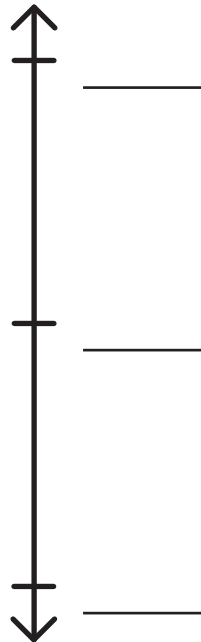
Kayla reads for about _____ minutes.

44

Name:_____ Date:_____

Complete: ☐ Class:_____

**1.** The weight of a golf ball is shown here
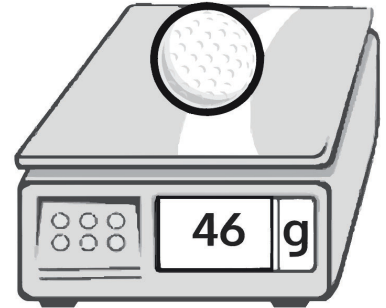
**a.** The golf ball weighs _____.

**46** g

**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.

_____

_____

_____

_____

| **Lesson 13**<br>**G:3 M:2** | **Top Ten** |
| --- | --- |
| | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

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

**SHOW YOUR WORK**

212 ≈ _____
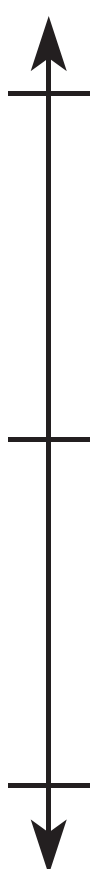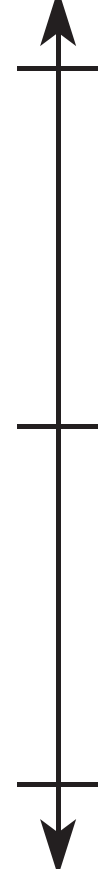
_____

_____

_____

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**

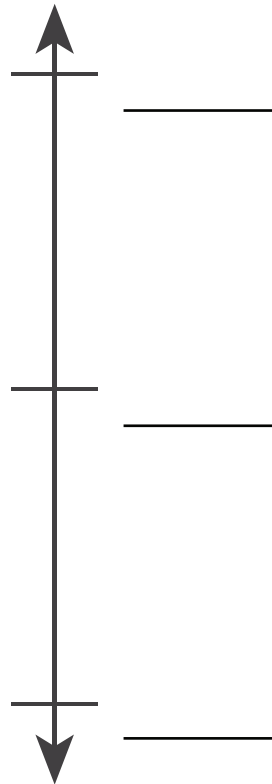| Lesson 14 | Line Dance |
| G:3 M:2 | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

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

2,146 ≈ _____

Name:_____ Date:_____

Complete: ☐                              Class:_____

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

a. 137 ≈ _____

b. 1,761 ≈ _____

**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

**Math Magician Composition**

**ZEARN STUDENT NOTES**

Name:_____ Date:_____

Complete: ☐

Class:_____

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

$$+ \ \frac{\underline{\hspace{3em}}}{\underline{\hspace{3em}}}$$

|  | tens | ones |
|---|---|---|
|  | ●●●●● | ●●●⦸⦸ ⦸ |
|  | ●● | ⦸⦸⦸⦸⦸ ⦸⦸ |
|  | ● |  |

Name:_____ Date:_____

Complete: ☐　　　　　　　　　　　　Class:_____

1. Find the sums below. Choose mental math or the algorithm.

a. 24 cm + 36 cm

b. 562 m + 180 m

c. 345 km + 239 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?

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

**1** Solve 158 + 266.

Show your work on the addition algorithm.

**SHOW YOUR WORK**

$$
\begin{array}{r}
\underline{\phantom{0000}} \\
+\ \underline{\phantom{0000}} \\
\hline
\underline{\phantom{0000}}
\end{array}
$$

## Lesson 16
### G:3 M:2

# EXIT TICKET

Name:_____ Date:_____

Complete: ☐

Class:_____

**1.** Find the sums below.

**a.** 78 g + 29 g

**b.** 328 kg + 289 kg

**c.** 509 L + 293 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** |
| :-- |
| **G:3 M:2** |
| **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**

Name:_____ Date:_____

Complete: ☐ Class:_____

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.

   _____

   _____

   _____

Name:_____ Date:_____

Complete: ☐ Class:_____

**1.** Solve the subtraction problems below.

**a.** 381 mL – 146 mL

**b.** 730 m – 426 m

**c.** 509 kg – 384 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?



SHOW YOUR WORK

| Lesson 19 G:3 M:2 | Ready, Set, Subtract |
|---|---|
| | **ZEARN STUDENT NOTES** |

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

**1** 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?

DRAW

SOLVE

David has driven _____ kilometers.

Name:_____  Date:_____

Complete: ☐  Class:_____

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?

Name:_____ Date:_____

Complete: ☐                                      Class:_____

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.



| Large Cup | 363 grams |
|-----------|-----------|
| Small Cup | ? grams |

   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

_____

_____

_____

_____

<table>
<tr><td rowspan="2">**Lesson 21**<br>**G:3 M:2**</td><td>**All Together Measure**</td></tr>
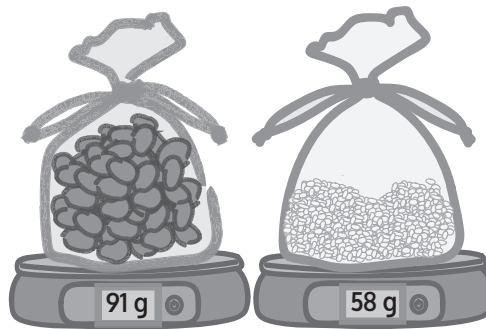<tr><td>**ZEARN STUDENT NOTES**</td></tr>
</table>

**Name:**_____ **Date:**_____

**Complete:** ☐ **Class:**_____

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



**Beans**         **Rice**

**ESTIMATE**

_____ + _____ ≈ _____ + _____ = _____

**ACTUAL**

**Is your answer reasonable?**

_____

_____

_____

_____

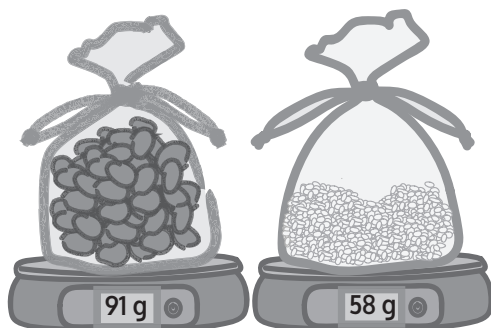**2** Estimate, then find the difference between the weight of the beans and rice.



**Beans**      **Rice**

91 g      58 g

**ESTIMATE**

**ACTUAL**

The beans weigh _____ grams more than the rice.

Name:_____ Date:_____

Complete: ☐ Class:_____

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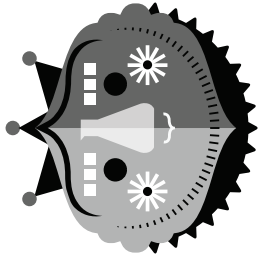
   **a.** Estimate the total amount of water Rogelio drinks. Then, find the actual amount of water he drinks at all three meals.

   **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.

# ZEARN

Congratulations!
You completed

**Grade 3 Mission 2**

Measure It

Zearned it!

............................................

Name

............................................

Date