


**Teacher Guide**

**Find a Pet Rock (TG)  
Homework**

Students will find a rock with a mass of about 50 g.

Name \_\_\_\_\_ Date \_\_\_\_\_

**Find a Pet Rock**

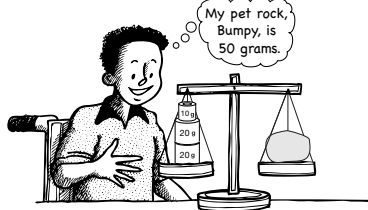


Dear Family Member:

Your child is learning to measure the mass of an object by using a two-pan balance. Please help him or her find a small rock or rocks to bring to school. Each rock should be about 50 grams or about 5 nickels, 20 pennies, or a chunky eraser. Students will use a two-pan balance and standard masses to find the mass of the rock.

Thank you.

- Find a rock that you think has a mass of about 50 grams. You do not need to measure it—just estimate.
- Try to think of a name for your rock. \_\_\_\_\_
- Bring the rock to school by \_\_\_\_\_ (date).
- You can bring more than one rock to school to share if you like.
- On the above date, you will find the exact mass of your rock and compare its mass to another rock's mass.



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**Teacher Guide**

Name \_\_\_\_\_ Date \_\_\_\_\_

### Find the Total Mass

**Homework**


Dear Family Member:

Your child has been measuring the mass of objects, composing and decomposing numbers, applying properties of addition, and solving addition and subtraction problems involving mass. This assignment involves addition problems with multiple addends. When composing the numbers below, encourage your child to start adding with the largest gram mass. For example,  $50 + 10 + 10 + 5 + 5 + 5 + 1 = 86$ .


Thank you.

**The picture shows the masses used to balance each object. What is the total mass of each object? Write number sentences.**

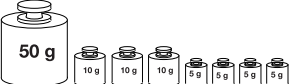
1. Eraser
 




\_\_\_\_\_
2. 3 Markers
 



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



\_\_\_\_\_
4. Graduated Cylinder
 



\_\_\_\_\_

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**Find the Total Mass (TG pp. 1–2)  
Homework  
Questions 1–7**

Strategies students choose will vary.

1. 38 grams
2. 109 grams
3. 100 grams
4. 33 grams

Solution methods will vary.

5.  $38 = 30 + 8$   
 $+ 33 = 30 + 3$   
 $60 + 11 = 71$  grams
6.  $109$   
 $+ 33$   
 $142$  grams
7.  $38$   
 $+ 100$   
 $8$   
 $30$   
 $+ 100$   
 $138$  grams

Name \_\_\_\_\_ Date \_\_\_\_\_

**Write the mass of each object in Questions 1–4 in the table. Use this information to solve each problem. Show or tell your solution.**

**Mass in Grams**

Eraser	Markers	Flat	Graduated Cylinder

5. How much mass do the eraser and the graduated cylinder have altogether?
6. How much mass do the graduated cylinder and the markers have altogether?
7. How much mass do the eraser and the flat have altogether?

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Name \_\_\_\_\_ Date \_\_\_\_\_

**Part 4 Base-Ten Hoppers**  
 Show how the base-ten hopper can add these numbers on the number line. Remember, the base-ten hopper can hop forward and backward and makes hops of only one or ten at a time. The example shows you two different ways.

Example:  $23 + 18$

A.  $15 + 15$

\_\_\_\_\_

B.  $39 + 11$

\_\_\_\_\_

C.  $42 + 49$

\_\_\_\_\_

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Name \_\_\_\_\_ Date \_\_\_\_\_

**Part 5 Use Data to Solve Problems**  
 On a safari trip, Dr. Little collected data about lions. He recorded the weight of several lions in the table below. Answer the questions based on the data in the table.

Lion's Weight	
Lion	Weight in Pounds
Acton	245
Binta	366
Carl	260
Damon	293
Elsa	222

- Janette says lions usually weight about 100 pounds. Look at Dr. Little's data. Do you agree with Janette? Why or why not?
- Put the numbers in order from smallest to largest.  
 \_\_\_\_\_  
 \_\_\_\_\_
- What is the range of weights of Dr. Little's lions? (Hint: the range is the smallest to largest numbers.)  
 \_\_\_\_\_

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Part 4. Base-Ten Hoppers (TG p. 3)  
 Questions A–C

A.

OR

B.

C.

OR

Part 5. Use Data to Solve Problems (TG p. 4)  
 Questions 1–3

- No; lion weights vary between 222 – 366 pounds.
- 222, 245, 260, 293, 366
- 222 – 366 pounds

Part 6. Base-Ten Pieces (TG p. 5)

Lion's Weight

Lion	Weight in Pounds	Base-Ten Shorthand
Acton	245	□□      ..... 
Binta	366	□□□      ..... 
Carla	260	□□      ..... 
Damon	293	□□      ..... 
Elsa	222	□□    ..

Name \_\_\_\_\_ Date \_\_\_\_\_

**Part 6 Base-Ten Pieces**

Use base-ten shorthand to show the weights of the lions from Dr. Little's safari data.

Lion	Weight in Pounds	Base-Ten Shorthand
Acton	245	
Binta	366	
Carl	260	
Damon	293	
Elsa	222	

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