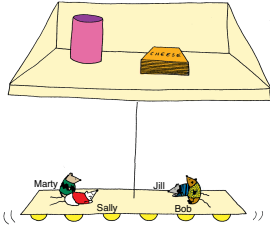Name _____ Date _____

Jill, Sally, Marty, and Bob Did It

Marty and Sally are on one side of the lamp. Jill and Bob are on the other side. The lamp is balanced! What could be the masses of the four mice?

Work with a partner. The mice can have any of the masses below. Each mouse has a different mass.

9 grams	6 grams	3 grams
8 grams	5 grams	2 grams
7 grams	4 grams	1 gram

You can use connecting cubes to represent each mouse's mass. Check your combinations on the two-pan balance.

Record the combinations of masses in the tables on the back of this page.

The Mouse-Proof Shelf   SAB · Grade 2 · Unit 8 · Lesson 2   **391**

Student Activity Book - Page 391

Name _____ Date _____

Jill and Bob's total mass should equal Sally and Marty's total mass. The first row shows an example.

Mouse Masses in Grams

Sally + Marty	Total	Jill + Bob	Total
5 + 4	9	8 + 1	9

392   SAB · Grade 2 · Unit 8 · Lesson 2   The Mouse-Proof Shelf

Student Activity Book - Page 392

Student Activity Book

Jill, Sally, Marty, and Bob Did It (SAB pp. 391–392)

*See Figure 1 for a complete list of possible solutions.

*Answers and/or discussion are included in the lesson.

Compare Numbers (SAB pp. 393–394)
Questions 1–4

1. **A.** $>$
   B. $=$
   C. $<$
   D. $=$
   E. $>$
   F. $=$
   G. $>$

2. **A.** False
   B. True
   C. False
   D. True

3. (smallest to largest) $7 + 3, 8 + 4, 6 + 7,$ $9 + 5$

4. Yes, the two-pan balance would balance; $9 + 6 = 8 + 7$

Name _____ Date _____

Compare Numbers

1. Fill in the circle with $>$, $<$, or $=$ to make each statement true.

   > greater than
   < less than
   = equal to

   A. $10 + 5 \bigcirc 9 + 4$

   B. $8 + 3 \bigcirc 12 - 1$

   C. $6 + 7 \bigcirc 7 + 8$ **D.** $16 - 2 \bigcirc 8 + 6$

   E. $7 + 5 \bigcirc 9 - 2$ **F.** $4 + 5 \bigcirc 6 + 3$

   G. $12 - 8 \bigcirc 11 - 8$

2. Is it true or false? Circle true or false for each problem.

   A. $12 - 9 = 9 - 12$ True   False

   B. $7 + 5 = 15 - 3$ True   False

   C. $12 - 4 = 0 + 9$ True   False

   D. $7 + 9 = 10 + 6$ True   False

3. Place these number sentences in order from smallest sum to largest sum.

   $8 + 4$ $7 + 3$ $9 + 5$ $6 + 7$

   _____   _____   _____   _____
   smallest sum   largest sum

The Mouse–Proof Shelf   SAB · Grade 2 · Unit 8 · Lesson 2   **393**

Student Activity Book - **Page 393**

Name _____ Date _____

4. Sally and Marty are in one pan of a two-pan balance. Jill and Bob are in the other pan. Sally is 9 grams and Marty is 6 grams. Jill is 8 grams and Bob is 7 grams. Will the pans balance?

   Write a number sentence to explain your answer. Use the symbols $>$, $<$, or $=$.

Compare Numbers Feedback Box	Expectation	Check In	Comments
Use words and symbols (e.g., <, >, =) to show comparisons of quantities. [Q# 1, 4]	E2		
Compare and order quantities. [Q# 1, 3]	E3		
Recognize that different partitions of a number have the same total. [Q# 2, 4]	E4		
Apply the properties of addition (e.g., commutative, associative) to write number sentences that represent mass. [Q# 4]	E5		
Solve addition and subtraction problems involving mass. [Q# 4]	E6		

394   SAB · Grade 2 · Unit 8 · Lesson 2   The Mouse–Proof Shelf

Student Activity Book - **Page 394**

Name _____ Date _____

Balance the Number Sentences

Homework

Dear Family Member:

Your child has been working with number sentences that have the same total on both sides of the equal sign. For example, 7 + 4 = 8 + 3. Have your child explain how he or she solved each problem.

Thank you.

1. Match the number sentences that have the same sum. Draw a line from the number sentence in Column A to the number sentence in Column B. The first one has been done for you.

Column A	Column B
A. 6 + 5	15 – 0
B. 4 + 8	7 + 4
C. 15 – 2	7 + 7
D. 8 + 7	14 – 2
E. 18 – 4	7 + 6
F. 9 + 7	19 – 3

2. Is it true or false? Circle true or false for each problem.

A. 6 + 9 = 15 − 7	True	False
B. 10 + 4 = 7 + 7	True	False
C. 14 + 3 = 7 + 4	True	False
D. 8 − 5 = 5 − 8	True	False

Homework Master

TG · Grade 2 · Unit 8 · Lesson 2

Teacher Guide

Teacher Guide

Balance the Number Sentences (TG)
Homework
Questions 1–2

1. **A.** $6 + 5$ $15 - 0$
   B. $4 + 8$ $7 + 4$
   C. $15 - 2$ $7 + 7$
   D. $8 + 7$ $14 - 2$
   E. $18 - 4$ $7 + 6$
   F. $9 + 7$ $19 - 3$

2. **A.** False
   B. True
   C. True
   D. False