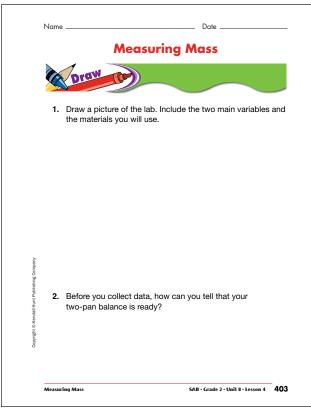
### Answer Key • Lesson 4: Measuring Mass

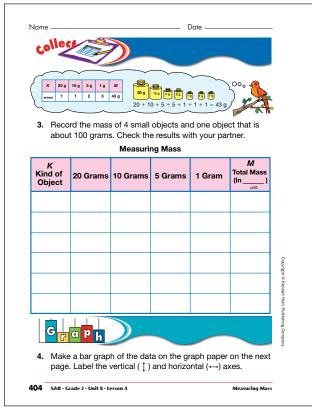


### **Student Activity Book**

## Measuring Mass (SAB pp. 403–410) Ouestions 1–11

- 1.\* See Figure 3 in Lesson 3 for a sample picture.
- 2.\* We must zero the balance.
- **3.\*** See Figure 4 in Lesson 3 for a sample data table.
- **4.**\* See Figure 5 in Lesson 3 for a sample graph.
- **5–9.\*** Answers will vary.

### Student Activity Book - Page 403



Tell how you know.

6. A. Which of your objects has the least mass?

Tell how you know.

6. A. Which of your objects has the most mass?

B. John has three objects has the most mass?

B. John has three objects. Each has a mass of 40 grams. Which has more mass, John's three objects or your heaviest object? Show or tell how you know.

40 g

40 g

40 g

40 g

Student Activity Book - Page 404

Student Activity Book - Page 407

TG · Grade 2 · Unit 8 · Lesson 4 · Answer Key

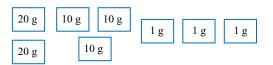
<sup>\*</sup>Answers and/or discussion are included in the lesson.

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- **10.** Object A is between 48 and 49 grams.
- **II. A.** 20 + 10 + 10 + 10 + 5 + 5 + 5 + 5 + 1 + 1 = 73 grams
  - **B.** Solutions may vary. Possible solutions:

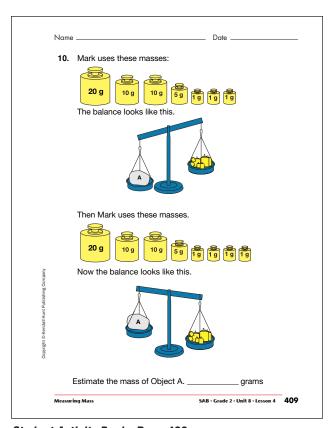
20 g	10 g	5 g	1 g
2	3	0	3

20 + 10 + 10 + 10 + 5 + 5 + 5 + 5 + 1 + 1 + 1 = 73 grams

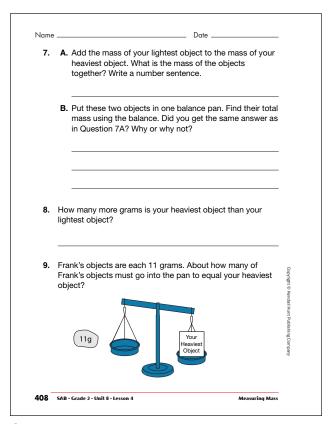


**C.** Possible solutions:

	20 g	10 g	5 g	1 g			
	1	4	1	8			
20 + 10 + 10 + 10 + 10 + 5 +							
+1+1+1+1+1+1+1=73 grams							



Student Activity Book - Page 409



### Student Activity Book - Page 408

Name					_ Date			_
11.	Irma used these gram masses to measure the mass of her rock.							
	20 g	10 g	5 g	1 g	20 g	100	9 59 19	
	1	3	4	3		10 g	9 59	9]
	B. Fran used used	iber sent k measu I differen	red the r t masses	mass of the s." What total mass	masses	could Fr	ank have	•
					10 9	3 g	19	
	Num	iber sent	ence		Ū		19	_
	C. Is the		ner way I	Frank cou				=
	C. Is the	ere anotl	ner way I					_
	C. Is the	ere anotl	ner way I	Frank co	uld have	gotten t	the same	_
	C. Is the total	ere anotl	ner way l	Frank co	uld have	gotten t	the same	

Student Activity Book - Page 410

### **Answer Key • Lesson 4: Measuring Mass**

A . A . 1
Pet Rock
se counters, a 200 Chart, and number lines to solve the roblems about your pet rock.
y Pet Rock's name is y Rock is grams.
1. A. Draw the gram masses you need to mass your rock. Write a number sentence.
Number sentence
<b>B.</b> Show or tell another way to get the same total.
Number sentence
What if your rock had a mass twin? What would their total mass be?
Number sentence

### Student Activity Book - Page 413

would their total mass be?	
Number sentence	
4. What if your rock was broken	into four equal parts?
What would the mass of each	part be?
Number sentence	
Number sentence	
	Сор
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### Student Activity Book - Page 414

# Pet Rock (SAB pp. 413–414) Questions 1–4 \* Answers for Questions 1–4 will vary.

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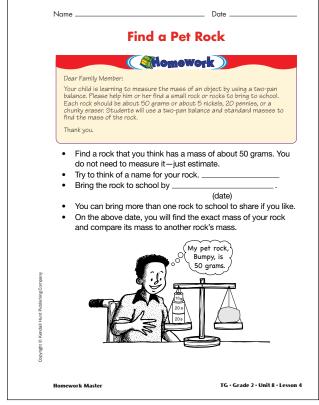
<sup>\*</sup>Answers and/or discussion are included in the lesson.

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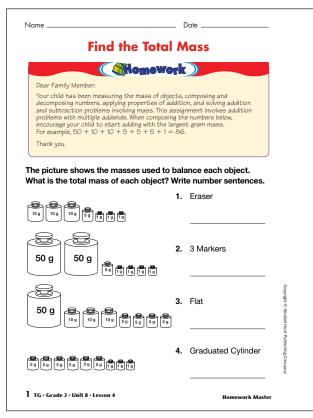
### **Teacher Guide**

### Find a Pet Rock (TG) Homework

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



Teacher Guide



Teacher Guide - Page 1

Writ		each object in o		in the table. Us
		Mass i	n Grams	
	Eraser	Markers	Flat	Graduated Cylinder
5.	How much m	nass do the eras ner?	ser and the gra	duated cylinder
6.	How much m	nass do the grad ner?	duated cylinder	and the marke
7.	How much m	nass do the eras	ser and the flat	have altogethe
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Home	work Master		TG · Gr	ade 2 • Unit 8 • Lesson

### Teacher Guide - Page 2

### 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. 
$$109 \\ + 33 \\ 142 \text{ grams}$$