

Date _____

Make It Balance

Use a two-pan balance and a set of gram masses. Place the masses that match the first number sentence in one pan. Find a different set of masses that will balance the pans. Write another number sentence to show the masses that you used. Then combine the two number sentences to make one true statement.

Ex. $20 + 10 + 10 + 5 = 45$ $10 + 10 + 10 + 10 + 5 = 45$
First Number Sentence Another Number Sentence

$20 + 10 + 10 + 5 = 45$ $20 + 10 + 10 + 10 + 10 + 5$
Combined Number Sentence

A. $20 + 5 + 4 = 29$ _____
First Number Sentence Another Number Sentence

_____ _____
Combined Number Sentence

Copyright © Kendall Hunt Publishing Company

Compute with Mass SAB • Grade 2 • Unit 8 • Lesson 5 415

Student Activity Book - Page 415

Student Activity Book

Make It Balance (SAB pp. 415–417)
Questions A–I

Answers will vary. Possible responses for Questions A–E are shown.

- A.** $10 + 10 + 5 + 4 = 29$;
 $20 + 5 + 4 = 10 + 10 + 5 + 4$
- B.** $20 + 10 + 4 = 34$;
 $10 + 10 + 10 + 4 = 20 + 10 + 4$
- C.** $20 + 10 + 10 + 7 = 47$;
 $20 + 20 + 7 = 20 + 10 + 10 + 7$
- D.** $10 + 10 + 20 + 20 = 60$;
 $10 + 5 + 5 + 20 + 20 = 10 + 10 + 20 + 20$
- E.** $10 + 10 + 10 + 10 + 2 = 42$;
 $20 + 10 + 5 + 5 + 2 = 10 + 10 + 10 + 10 + 2$

F–I. Answers will vary.

Name _____ Date _____

B. $10 + 10 + 10 + 4 = 34$ _____
First Number Sentence Another Number Sentence

_____ _____
Combined Number Sentence

C. $20 + 20 + 7 = 47$ _____
First Number Sentence Another Number Sentence

_____ _____
Combined Number Sentence

D. $10 + 5 + 5 + 20 + 20 = 60$ _____
First Number Sentence Another Number Sentence

_____ _____
Combined Number Sentence

E. $20 + 10 + 5 + 5 + 2 = 42$ _____
First Number Sentence Another Number Sentence

_____ _____
Combined Number Sentence

Copyright © Kendall Hunt Publishing Company

416 SAB • Grade 2 • Unit 8 • Lesson 5 Compute with Mass

Student Activity Book - Page 416

Name _____ Date _____

F. _____ _____
Another Number Sentence First Number Sentence

_____ _____
Combined Number Sentence

G. _____ _____
Another Number Sentence First Number Sentence

_____ _____
Combined Number Sentence

H. _____ _____
Another Number Sentence First Number Sentence

_____ _____
Combined Number Sentence

I. _____ _____
Another Number Sentence First Number Sentence

_____ _____
Combined Number Sentence

Copyright © Kendall Hunt Publishing Company

Compute with Mass SAB • Grade 2 • Unit 8 • Lesson 5 417

Student Activity Book - Page 417

Name _____ Date _____

4. Circle True or False for each statement.

A. $20 + 20 + 2 = 20 + 10 + 5 + 2$ True False

B. $20 + 4 = 10 + 10 + 4$ True False

C. $10 + 10 + 5 + 5 = 20 + 10 + 5$ True False

5. Mara ate some of her sandwich. When she placed the leftover part of her sandwich on the two-pan balance, it had a mass of 40 grams. How much did she eat? Show or tell how you know.

Number sentence _____

6. How many more grams is the small apple than the cookie? Show or tell how you know.

Number sentence _____

7. Miguel's cookie is 17 grams more than Mara's cookie. What is the mass of Miguel's cookie? Show or tell how you know.

Number sentence _____

Copyright © Kendall Hunt Publishing Company

428 SAB • Grade 2 • Unit 8 • Lesson 5 Compute with Mass

4. A. False
B. True
C. False
5. 50 grams; Possible strategy: I used the number line. I started at 90 and counted back 4 tens. I landed at 50.
Number sentence $70 \text{ g} - 40 \text{ g} = 30 \text{ g}$
6. 25 grams; Possible strategy: I started at 45 and counted up by fives until I reached 70: 5, 10, 15, 20, 25.
Number sentence $45 \text{ g} > \boxed{25 \text{ g}} = 70 \text{ g}$
7. 62 grams; Possible strategy: I used the compact method.
- $$\begin{array}{r} 45 \text{ grams} \\ + 17 \text{ grams} \\ \hline 62 \text{ grams} \end{array}$$
- Number sentence $45 \text{ g} + 17 \text{ g} = 62 \text{ g}$

Student Activity Book - Page 428

Name _____ Date _____

Expectation	Check In	Comments
Compose and decompose numbers using ones, fives, tens, and hundreds. [Q# 1-4]	E1	
Use words and symbols (e.g., $<$, $>$, $=$) to show comparisons of quantities. [Q# 3]	E2	
Recognize that different partitions of a number have the same total (e.g., $30 = 4 + 40 = 14$). [Q# 4]	E4	
Apply the properties of addition (e.g. commutative, associative) to number sentences that represent mass. [Q# 1, 5-7]	E5	
Solve addition problems (e.g., part-whole, join, compare) involving mass. [Q# 2, 5-7]	E6	

Yes ...	Yes, but ...	No, but ...	No ...
MP1E. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 2, 5-7]			
MP6E. Use labels. I use labels on my numbers. [Q# 5-7]			

Copyright © Kendall Hunt Publishing Company

Compute with Mass SAB • Grade 2 • Unit 8 • Lesson 5 **429**

Student Activity Book - Page 429

Copyright © Kendall Hunt Publishing Company