

Button Collection

Show or tell your strategy for solving the problem.

Sarah had 22 buttons in her button collection. She gave 8 to Jeanette and 10 to Eric. How many buttons did she have left in her collection?

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Button Collection Feedback Box	Yes ...	Yes, but ...	No, but ...	No ...
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.				
MPE6. Use labels. I use labels to show what numbers mean.				

TG • Grade 2 • Unit 2 • Lesson 5

Master

Teacher Guide

Button Collection (TG)

*See the discussion and Figures 2–4 in the lesson.

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

Part 4. Rule Machines (TG p. 3)

Rule: Add 7		
Number	Split 7	Number Sentence
4	6 + 1	$(4 + 6) + 1 = 11$
8	2 + 5	$(8 + 2) + 5 = 15$
6	4 + 3	$(6 + 4) + 3 = 13$
9	1 + 6	$(9 + 1) + 6 = 16$
5	5 + 2	$(5 + 5) + 2 = 11$

Rule: Add 8		
Number	Split 8	Number Sentence
5	5 + 3	$(5 + 5) + 3 = 13$
8	2 + 6	$(8 + 2) + 6 = 16$
6	4 + 4	$(6 + 4) + 4 = 14$
9	1 + 7	$(9 + 1) + 7 = 17$
4	6 + 2	$(4 + 6) + 2 = 12$

Name _____ Date _____

Part 4 Rule Machines
Use a number line, ten frames, or a 200 Chart. Solve each problem. Write a number sentence that shows your solution. Circle how you made ten in your number sentence.

Rule: Add 7		
Number	Split 7	Number Sentence
4	6 + 1	$(4 + 6) + 1 = 11$
8		
6		
9		
5		

Rule: Add 8		
Number	Split 8	Number Sentence
5	5 + 3	$(5 + 5) + 3 = 13$
8		
6		
9		
4		

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Part 5. More Rule Machines (TG p. 4)

Rule: Subtract 5	
Number	Number Sentence
15	$15 - 5 = 10$
18	$18 - 5 = 13$
19	$19 - 5 = 14$
14	$14 - 5 = 9$

Rule: Subtract 10	
Number	Number Sentence
15	$15 - 10 = 5$
18	$18 - 10 = 8$
16	$16 - 10 = 6$
19	$19 - 10 = 9$

Rule: Subtract 9	
Number	Number Sentence
15	$15 - 9 = 6$
18	$18 - 9 = 9$
16	$16 - 9 = 7$
19	$19 - 9 = 10$

Name _____ Date _____

Part 5 More Rule Machines
Solve each problem. Follow the example.

Rule: Subtract 5	
Number	Number Sentence
15	$15 - 5 = 10$
18	
19	
14	

Rule: Subtract 10	
Number	Number Sentence
15	
18	
16	
19	

Rule: Subtract 9	
Number	Number Sentence
15	
18	
16	
19	

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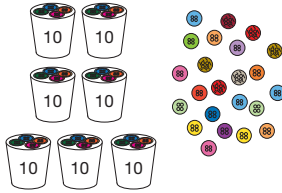
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Name _____ Date _____

Part 6 How Many Buttons

Finish grouping and counting the buttons. Use buttons and cups or draw a picture.

- Nila had not finished all her grouping and counting. She had 7 cups with 10 buttons in each and 23 loose buttons.



How many buttons did she have in all? _____

How many groups of 100? _____

How many groups of ten? _____

How many leftover buttons? _____

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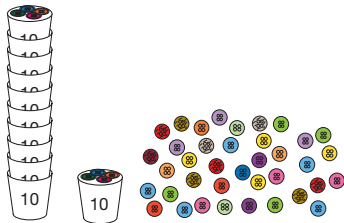
**Part 6. How Many Buttons (TG p. 5–6)
Questions 1–2**

- 93 buttons
no groups of 100
9 groups of 10
3 leftover buttons
- 148 buttons
1 group of 100
4 groups of 10
8 leftover buttons

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Name _____ Date _____

- Shannon had 11 cups with 10 buttons in each and 38 buttons that were not in cups.



How many buttons did she have in all? _____

How many groups of 100? _____

How many groups of ten? _____

How many leftover buttons? _____

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