

Workshop: Place Value

Use the following Self-Check question to check your progress with place value concepts.

✓ **Self-Check: Question 1**

- At the TIMS Candy Company workers are counting packages of Chocos.

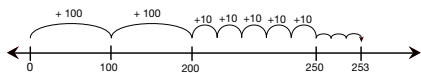
Maya's Count:



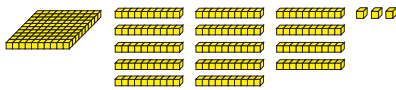
Tom's Count:

$$100 + 100 + 100 + 10 + 10 + 10 + 20 + 20 + 20 + 10 + 3$$

Professor Peabody's Count:



Nikia's Count:



Student Guide

Workshop: Place Value (SG pp. 91–92)

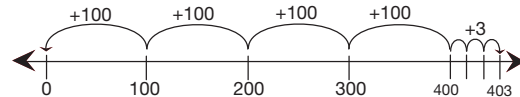
Question 1

- Maya counted 243 Chocos; Tom counted 403 Chocos; Professor Peabody counted 253 Chocos; Nikia counted 243 Chocos.

- Maya and Nikia counted the same number of Chocos.

- □ ||||| ...

- Possible responses:



- Tom counted the most Chocos at 403 Chocos.

353. Possible response:



Student Guide - Page 91

- How many Chocos did each worker count?
- Which two workers counted the same number of Chocos?
- Use base-ten shorthand to show Maya's count using the Fewest Pieces Rule.
- Show Tom's count using base-ten shorthand or a number line.
- Who counted the most Chocos?
- Eric counted 100 more Chocos than Professor Peabody. How many Choco's did Eric count? Use base-ten shorthand to show Eric's count.

Can I make trades with base-ten pieces?



Tara

Can I show a number different ways?



Chris

Can I compare large numbers?






Sam

Use the *Place Value Workshop Menu* page in your *Student Activity Book* to help you choose your next activities and practice.

Student Guide - Page 92

Student Activity Book

Show Choco Packages (SAB pp. 125–128)
Questions 1–8

- Maya and Nikia each counted 48.
Fewest Pieces: 
- Maya and Nikia each counted 243.
Fewest Pieces: 
- Maya's Count: 526
Nikia's Count: 516
Not the same
- Maya and Nikia each counted 2262.
Fewest Pieces: 

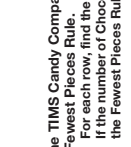

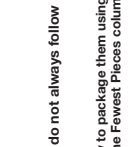
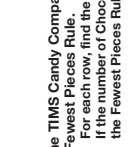

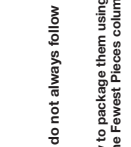
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Show Choco Packages

At the TMS Candy Company, Maya and Nikia are packaging Chocos. They do not always follow the Fewest Pieces Rule.

- For each row, find the number of Chocos Maya and Nikia packaged.
- If the number of Chocos is the same, use base-ten shorthand to show how to package them using the Fewest Pieces Rule. If they are not the same, write "not the same" in the Fewest Pieces column.

	Maya's Count	Nikia's Count	Fewest Pieces
*1.	 Number of Chocos: _____	 Number of Chocos: _____	 Number of Chocos: _____
*2.	 Number of Chocos: _____	 Number of Chocos: _____	 Number of Chocos: _____

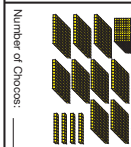
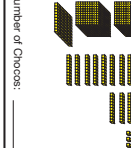
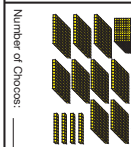
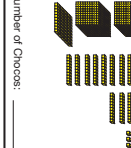
Workshop: Place Value SAB • Grade 3 • Unit 4 • Lesson 6 125

Student Activity Book - Page 125

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Name _____ Date _____

- For each row, find the number of Chocos Maya and Nikia packaged.
- If the number of Chocos is the same, use base-ten shorthand to show how to package them using the Fewest Pieces Rule. If they are not the same, write "not the same" in the Fewest Pieces column.

	Maya's Count	Nikia's Count	Fewest Pieces
*3.	 Number of Chocos: _____	 Number of Chocos: _____	
*4.	 Number of Chocos: _____	 Number of Chocos: _____	

126 SAB • Grade 3 • Unit 4 • Lesson 6 Workshop: Place Value

Student Activity Book - Page 126

Answer Key • Lesson 6: Workshop: Place Value

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Use base-ten shorthand to show three different ways Maya and Nikia can package the number of Chocos in each row. Write a number sentence for each way. If a number sentence is given, sketch the base-ten pieces needed to match the partitions.

Number	Fewest Pieces	Second Way	Third Way
232	Number Sentence: $200 + 30 + 2 = 232$	Number Sentence:	Number Sentence: $30 + 20 = 50$
95	Number Sentence:	Number Sentence:	Number Sentence: $30 + 26 = 56$

Workshop: Place Value SAB • Grade 3 • Unit 4 • Lesson 6 127

- Fewest Pieces: 2 flats, 3 skinnies, and 2 bits; $200 + 30 + 2$. Another possible way: 1 flat, 13 skinnies, and 2 bits; $100 + 130 + 2 = 232$.
- Fewest Pieces: 5 skinnies and 6 bits; $50 + 6 = 56$. Another possible way: 4 skinnies, 16 bits; $40 + 16$.
To match $30 + 26 = 56$ sketch 3 skinnies, 26 bits.
- Fewest Pieces: 1 pack, 4 flats, 3 skinnies, and 5 bits; $1000 + 400 + 30 + 5 = 1435$.
To match $1400 + 30 + 5 = 1435$, sketch 14 flats, 3 skinnies, 5 bits.
Another possible way: 1 pack, 3 flats, 13 skinnies, and 5 bits; $1000 + 300 + 130 + 5 = 1435$.
2067. Fewest Pieces: 2 packs, 6 skinnies, and 7 bits; $2000 + 60 + 7 = 2067$. Another possible way: 1 pack, 8 flats, 26 skinnies, and 7 bits; $1000 + 800 + 260 + 7 = 2067$.
To match $1000 + 900 + 160 + 7 = 2067$, sketch 1 pack, 9 flats, 16 skinnies, and 7 bits.

Student Activity Book - Page 127

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Name _____ Date _____

Use base-ten shorthand to show three different ways Maya and Nikia can package the number of Chocos in each row. Write a number sentence for each way. If a number sentence is given, sketch the base-ten pieces needed to match the partitions.

Number	Fewest Pieces	Second Way	Third Way
1435	Number Sentence:	Number Sentence: $1400 + 30 + 5 = 1435$	Number Sentence:
2067	Number Sentence:	Number Sentence:	Number Sentence: $1000 + 900 + 160 + 7 = 2067$

128 SAB • Grade 3 • Unit 4 • Lesson 6 Workshop: Place Value

Student Activity Book - Page 128

Student Activity Book

Compare the Number of Chocos (SAB pp. 129–132)

Questions 1–9

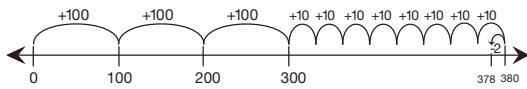
1. A. Maya: $200 + 180 = 380$

Tom: $300 + 70 + 8 = 378$

B. Maya. Possible response: 380 is two more than 378.

C. Possible response: Tom used the fewest pieces because there are no more trades possible.

D. Possible response:



2. A. Nikia: $100 + 50 + 18 = 168$

Maruta: $300 + 80 = 380$

B. $100 + 50 + 18 < 300 + 80$, or $168 < 380$

3. A. <

B. =

C. >

D. <

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Compare the Number of Chocos

★ 1. A. Maya and Tom packaged Chocos. How many Chocos did each person package?

Maya's count _____ Tom's count _____

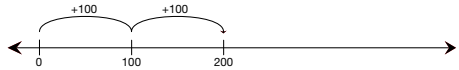
Maya	Tom
Number sentence _____	Number sentence _____

B. Who packaged more?

Show or tell how you know.

C. Which worker showed his or her count using the Fewest Pieces Rule, Maya or Tom? Show or tell how you know.

D. Tom started to show the number of Chocos he counted on a number line. Help Tom finish.



Workshop: Place Value

SAB • Grade 3 • Unit 4 • Lesson 6 129

Student Activity Book - Page 129

Name _____ Date _____

★ 2. A. Nikia and Maruta packaged Chocos. How many Chocos did each person package?

Nikia's count _____ Maruta's count _____

Nikia	Maruta
Number sentence _____	Number sentence _____

B. Write a true number sentence that compares Nikia's count to Maruta's count using < or >.

★ 3. Nikia and Maruta both like to write number sentences to show how they package Chocos. Use <, >, or = to make the number sentences true.

	Nikia		Maruta
A.	$30 + 4$	<input type="radio"/>	$10 + 10 + 10 + 14$
B.	$200 + 100 + 70 + 1$	<input type="radio"/>	$300 + 70 + 1$
C.	$100 + 60 + 17$	<input type="radio"/>	$100 + 50 + 6$
D.	$900 + 8$	<input type="radio"/>	$1000 + 8$

130 SAB • Grade 3 • Unit 4 • Lesson 6

Workshop: Place Value

Student Activity Book - Page 130

Teacher Guide

Place Value (TG pp. 1–2)

Questions 1–5

1. $50 + 200 = 250$

2. Fewest Pieces:



3. A. Answers may vary.



B. Answers may vary.



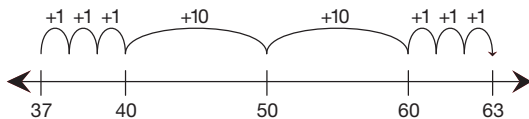
C. $1589 < 1601$

D. Answers will vary. Possible response: They both start with one pack, but 1589 has only 5 flats and 1609 has 6 flats. The 8 skinnies will not make another flat, so 1589 is smaller.

4. They both packaged 426 Chocos. Possible response: Maruta can trade 10 skinnies for 1 flat and have 4 flats, 2 skinnies, and 6 bits. Tom can trade 10 bits for 1 skinny and then have 4 flats, 2 skinnies, and 6 bits. That's fewest pieces for both and it is 426 Chocos, so they are the same.

5. Answers will vary.

Possible response:



It lands at 63.

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Name _____ Date _____

Place Value

1. How many Chocos are shown with 5 skinnies and 2 flats? Write a number sentence to show the total.

Number sentence: _____

2. How many Chocos are shown with 12 flats, 1 pack, 4 skinnies, and 14 bits?

Show the number in base-ten shorthand using the Fewest Pieces Rule. Write a number sentence to match.

Number sentence: _____

3. A. Show 1589 in base-ten shorthand.

B. Show 1601 in base-ten shorthand.

C. Complete the number sentence $1589 \bigcirc 1601$ using $<$, $>$, or $=$.

D. Show or tell how you know your sentence is correct.

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Teacher Guide - Page 1

Name _____ Date _____

4. Maruta packaged the Chocos shown below. Tom packaged the Chocos shown below.

Did Maruta and Tom package the same number of Chocos? Show or tell how you know.

5. Show how a base-ten hopper can start at 37 and move forward 26. Where does it land?

Place Value Feedback Box	Expectation	Check In	Comments
Compose and decompose numbers using ones, tens, hundreds, and thousands. [Q# 1–2, 3A, 3B, and 4]	E2		
Show different partitions of a number using base-ten pieces, number lines, and number sentences. [Q# 1–3A, 3B and 5]	E3		
Recognize that different partitions of a number have the same total (e.g., $100 + 20 + 3 = 100 + 10 + 13$). [Q# 4]	E4		
Read and write large numbers (to the thousands). [Q# 1–3A, 3B]	E5		
Compare large numbers (to the thousands). [Q# 3C, 3D, and 4]	E6		

Assessment Master TG • Grade 3 • Unit 4 • Lesson 6 2

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Teacher Guide - Page 2