

Tom made 3 flats, 5 skinnies, and 7 bits of Chocos. This is how he recorded his work.



1. How many Chocos were in the 3 flats that Tom made?
2. How many Chocos were in the 5 skinnies that Tom made?
3. How many Chocos did Tom make in all? Write a number sentence to show your answer.

Nikia's work is shown below.



4. Nikia made 1 flat of Chocos. How many Chocos is that?
5. Nikia made 2 skinnies of Chocos. How many Chocos is that?
6. How many Chocos did Nikia make in all? Write a number sentence to show your answer.

Maruta's work is shown below.



7. Maruta made 2 flats of Chocos. How many Chocos is that?
8. How many Chocos did Maruta make in all? Write a number sentence to show your answer.

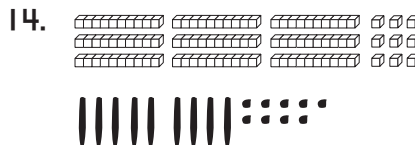
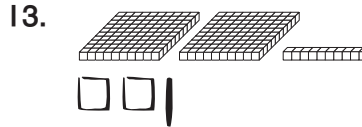
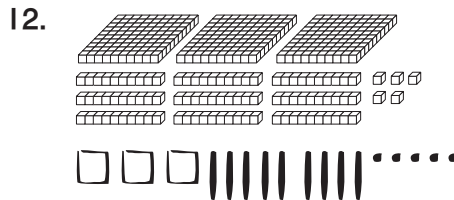
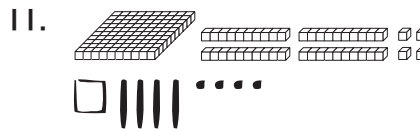
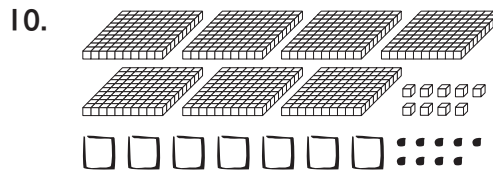
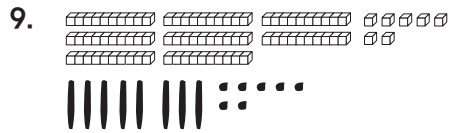
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Student Guide

Hundreds, Tens, and Ones (SG pp. 72–75)

Questions 1–23

1. 300 Chocos
2. 50 Chocos
3. 357 Chocos; $300 + 50 + 7 = 357$
4. 100 Chocos
5. 20 Chocos
6. 124 Chocos; $100 + 20 + 4 = 124$
7. 200 Chocos
8. 206 Chocos; $200 + 6 = 206$



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Student Guide - Page 72

Base-Ten Shorthand

The TIMS Candy Company uses special symbols called **base-ten shorthand** to record orders.

Base-ten piece			
Base-ten shorthand			

So, the shorthand for 532 is



Use your base-ten pieces to represent the Chocos in the orders below. Then use base-ten shorthand to show the order on paper.

9. TIMS Candy Co. 87 Chocos	10. TIMS Candy Co. 709 Chocos	11. TIMS Candy Co. 144 Chocos
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12. TIMS Candy Co. 395 Chocos	13. TIMS Candy Co. 210 Chocos	14. TIMS Candy Co. 99 Chocos
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Student Guide - Page 73

15. $100 + 60 + 200 + 11 = 371$



$300 + 70 + 1 = 371$

16. $30 + 200 + 5 = 235$
Already in fewest pieces

17. $500 + 140 + 3 = 643$



$600 + 40 + 3 = 643$

18. $50 + 14 + 200 = 264$



$200 + 60 + 4 = 264$

19. $5 + 800 + 100 = 905$



$900 + 5 = 905$

20. $500 + 20 = 520$
Already in fewest pieces

21. $600 + 7 + 40 = 647$
Already in fewest pieces

22. $400 + 120 + 12 = 532$



$500 + 30 + 2 = 532$

23. $200 + 300 + 11 = 511$



$500 + 10 + 1 = 511$

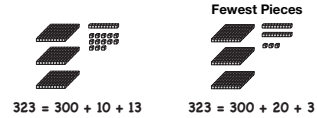
The Fewest Pieces Rule

The TIMS Candy Company prefers to fill its orders using the fewest number of packages. For example, instead of 10 skinnies, they prefer to use 1 flat. They call this the Fewest Pieces Rule.

When new workers are learning to put Chocos into the fewest packages, it helps them to think of base-ten pieces. The base-ten pieces represent the number of Chocos in an order. They remember the rule.

Fewest Pieces Rule: Always use the fewest base-ten pieces to represent a number.

To follow the Fewest Pieces Rule, they trade 10 pieces for the next larger piece whenever possible. For example, here are two ways to show 323 with number sentences to match. The picture on the right shows 323 using the fewest pieces.



Tom uses base-ten shorthand to take candy orders. Then he rewrites the order using the Fewest Pieces Rule.

Follow Tom's example. For each order in Questions 15–23, do the following:

- Write a number sentence to match the base-ten shorthand you see.
- Use base-ten shorthand to rewrite the order using the fewest pieces. You can use real base-ten pieces to find your answer, then write it using shorthand.
- Write a new number sentence to show the number of pieces ordered using the fewest pieces.

15. 1 flat, 6 skinnies, 2 flats, 11 bits



16. 3 skinnies, 2 flats, 5 bits



Student Guide - Page 74

17. 5 flats, 14 skinnies, 3 bits



18. 5 skinnies, 14 bits, 2 flats



19. 5 bits, 8 flats, 10 skinnies



20. 5 flats, 2 skinnies, 0 bits



✓ Check-In: Questions 21-23

21. 6 flats, 7 bits, 4 skinnies



22. 4 flats, 12 skinnies, 12 bits



23. 20 skinnies, 3 flats, 11 bits



Student Guide - Page 75

Homework

1. Peter ordered some Chocos from the TIMS Candy Company. Here is how the TIMS Candy Company used base-ten pieces to show his order.



- A. How many Chocos are in the flats Peter ordered?
- B. How many Chocos are in the skinnies Peter ordered?
- C. How many Chocos are in the bits Peter ordered?
- D. How many Chocos did Peter order in all?

2. Use base-ten shorthand to show two different ways to package orders for each of the following numbers of Chocos.

- A. 265
- B. 340
- C. 504
- D. 483



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Student Guide - Page 76

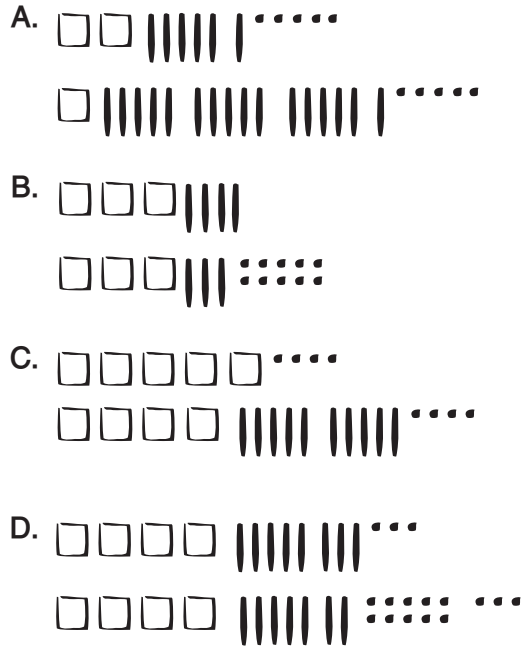
Student Guide

Hundreds, Tens, and Ones (SG pp. 76–77)

Homework

Questions 1–3

- 1. A. 300 Chocos B. 50 Chocos
C. 8 Chocos D. 358 Chocos
- 2. Answers will vary. Possible responses:



- 3. A. 252; already in fewest pieces
 $50 + 200 + 2 = 252$
- B. 506; fewest pieces:
 $500 + 6 = 506$
- C. 529; fewest pieces:
 $500 + 20 + 9 = 529$
- D. 742; fewest pieces:
 $700 + 40 + 2 = 742$

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Using the Fewest Pieces Rule

3. Write the number of Chocos this worker packed. Did she use the fewest pieces possible? If not, use base-ten shorthand to show the order with the fewest pieces possible. Write a number sentence to show the amount of each order using the fewest pieces. The first one is an example.

Ex.

213
Fewest Pieces
 $213 = 200 + 10 + 3$

A.

B.

C.

D.

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Student Guide - Page 77