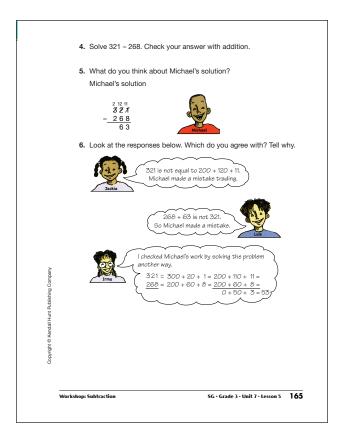
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Student Guide

Workshop: Subtraction (SG pp. 164–166) Questions 1–9

- $1. \ \ 255; \ 255 + 6965 = 7220$
- **2.** Student responses will vary. Students might notice that Tanya sometimes subtracts the top digit from the bottom digit. Her answer is too big.
- **3.** Students should agree with Ana and Jacob. Ana and Jacob noticed that Tanya was wrong and checked her answer for reasonableness.
- **4.** 53; 53 + 268 = 321
- **5.** Student responses will vary. Students might notice that Michael regrouped incorrectly.
- **6.** Students should agree with Jackie, Luis, and Irma. They knew that Michael traded incorrectly because the number sentence for the trades did not add up to 321.

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- 7. 112; 112 + 189 = 301
- **8.** Student responses will vary. Students might notice Nicholas' regrouping error. Students also might notice that his strategy is not very efficient.
- 9.* Students should agree with all 4 students.

Homework (SG p. 167) Questions A–G

Strategies will vary.

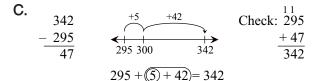
A.
$$83 = 80 + 3 = 70 + 13$$
 Check: 36

$$47 = 40 + 7 = 40 + 7$$

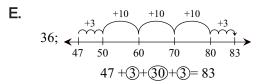
$$30 + 6 = 36$$

$$\frac{47}{83}$$

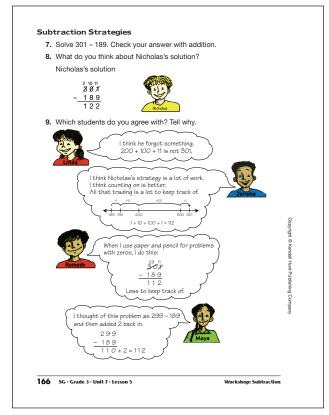
B.
$$\begin{array}{r}
251 & 79 + 1 = 80 \\
-79 & 80 + 20 = 100 \\
\hline
172 & 100 + 100 = 200 \\
200 + 51 = 251 \\
100 + 51 + 20 + 1 = 172
\end{array}$$



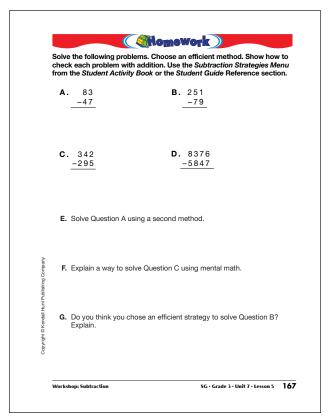
D.
$$713616$$
 83776 Check: 5847 $- \frac{5847}{2529}$ $\frac{+ 2529}{8376}$



- **F.** Possible response: From 295, count up (5) to 300, and then up (42) to 342. 5 + 42 = 47, so 342 - 295 = 47.
- **G.** Responses will vary.



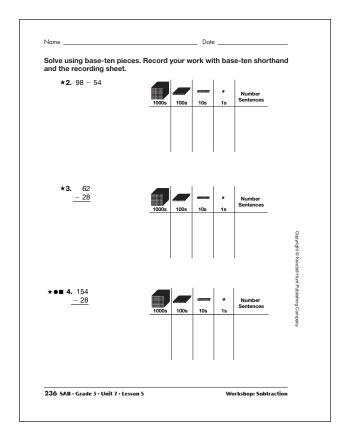
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^{*}Answers and/or discussion are included in the lesson.

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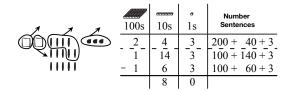
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Student Activity Book

Strategies to Subtract (SAB pp. 235–246) Questions 1–21

Strategies students choose will vary. Two possible strategies are given for each question.

I. 80;



2. 44;

1	100s	10s	o 1s	Number Sentences
		9	8	90 + 8
		- 5	4	50 + 4
		4	4	40 + 4

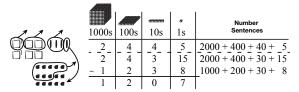
3. 34;

1	100s	10s	ه 1s	Number Sentences
		6	2	60 + 2
		5 -	12	50 + 12
		- 2	8	20 + 8
		3	4	

4. 126;

	100s	10s	o 1s	Number Sentences
1	1	5	4	100 + 50 + 4
	1	4	14	100 + 40 + 14
		- 2	8	20 + 8
	1	2	6	

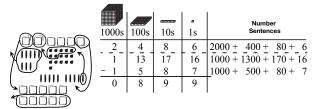
5. 1207;



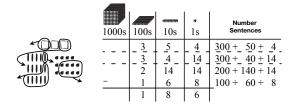
6. 1068;

1	1000s	100s	10s	ls	Number Sentences
	1	4	5_	6	1000 + 400 + 50 + 6
	1	3	15	6	1000 + 300 + 150 + 6
	1	3	14	16	1000 + 300 + 140 + 16
	-	3	8	8	300 + 80 + 8
	1	0	6	8	

7. 899;



8. A. 186;

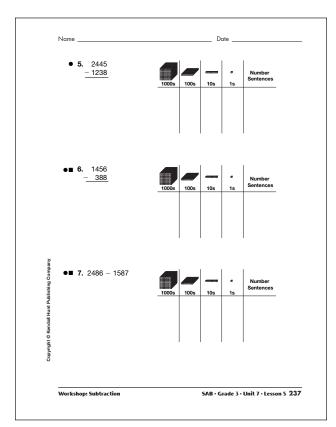


- **B.** Responses will vary. Possible response: Expanded form is similar to base-ten pieces. The trades are recorded using number sentences.
- **9.** Response will vary. Question 3 is shown here.

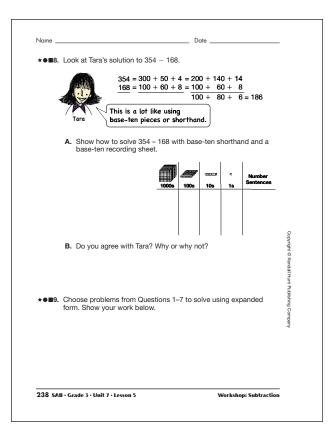
$$62 = 60 + 2 = 50 + 12$$

$$28 = 20 + 8 = 20 + 8$$

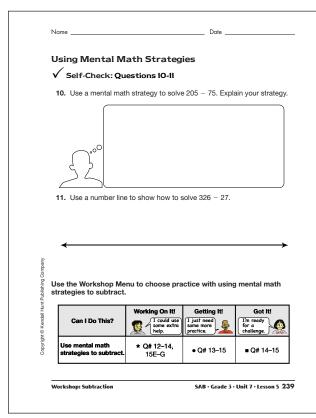
$$30 + 4 = 34$$



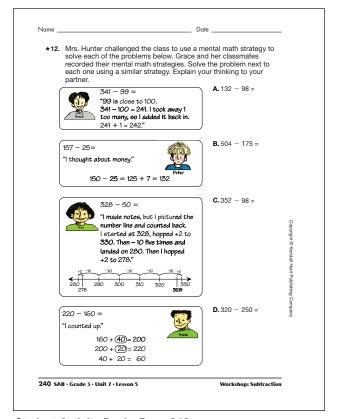
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10. 130; Responses will vary.

$$205 - 75 = 130$$

I thought about money.

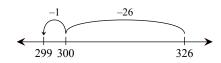
$$75 + (25) = 100$$

$$100 + 100 = 200$$

$$200 + (5) = 205$$

$$25 + 100 + 5 = 130$$

11. 299;

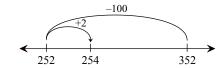


12. A.
$$34$$
; $132 - 100 = 32$

$$32 + 2 = 34$$

B.
$$329$$
; $500 - 175 = 325$ $325 + 4 = 329$

C. 254;

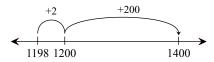


D.
$$70; 250 + (50) = 300$$

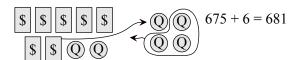
 $300 + (20) = 320$

$$50 + 20 = 70$$

13. 202; Strategies will vary.



14. 681; Strategies will vary. I thought about money 750 - 75 = 675



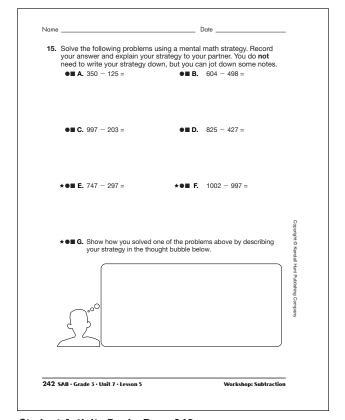
- **15. A.** 225
- **B.** 106
- **C.** 794
- **D.** 398
- **E.** 450
- **F.** 5
- **G.** Responses will vary. A response to Question F is given.

$$997 + 3 = 1000$$

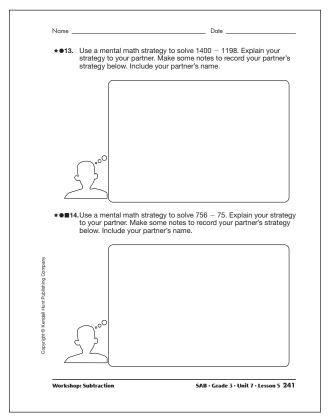
 $1000 + 2 = 1002$

$$3 + 2 = 5$$

16. 16; Strategies will vary.



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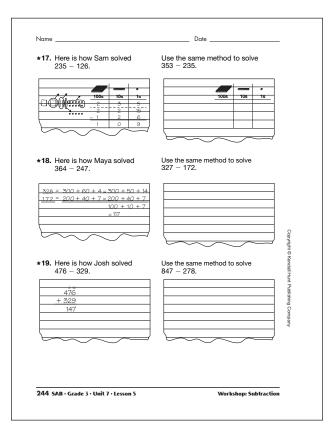


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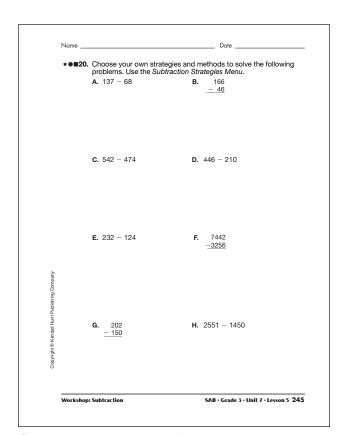
Jsing Different	Methods		
✓ Self-Check: Qu			
Jse the Subtraction Stra	ategies Menu in th	e Student Guide	Reference section
16. Solve 43 – 27 usir	ng three different st	rategies or method	is.
Ise the Workshop men	u to choose practi	ce with subtraction	on methods
Jse the Workshop menu		•	
Jse the Workshop menu	Working On It! I could use some extra help.	Getting It! I just need some more practice.	Got It!
Can I Do This?	Working On It! I could use some extra help. *APRILE APRILE APRI	Getting It! I just need some more practice. •Q# 20–21	Got it! I'm ready for a challenge. ■Q# 20–21
Can I Do This?	Working On It! I could use some extra help. *Q# 17–20 Use each of these methods	Getting It! I just need some more practice. •Q# 20-21 Use each of these methods	Got it! I'm ready for a challenge. ■Q# 20–21 Use each of these methods
Can I Do This? Use different methods to	Working On It! T could use some extra help. *Q# 17–20 Use each of	Getting It! I just need some more practice. •Q# 20–21 Use each of	Got it! I'm ready for a challenge. Q# 20–21 Use each of
Can I Do This? Use different methods to	Working On Itt Tould use some extra help. *Q# 17-20 Use each of these methods at least once: • base-ten pieces	Getting It! I just need some more practice. Q# 20-21 Use each of these methods at least once: • base-ten pieces	Got It! I'm ready for a challenge. Q# 20-21 Use each of these methods at least once: • expanded form
Can I Do This? Use different methods to	Working On It! T could use A # 17-20 Use each of these methods at least once: base-ten	Getting It! T just need some more practice. •Q# 20-21 Use each of these methods at least once: • base-ten pieces • expanded form	Got It! I'm ready for a challenge. ■Q# 20-21 Use each of these methods at least once: • expanded
Can I Do This? Use different methods to	Working On It! Could use some extro help. *AQ# 17-20 Use each of these methods at least once: * base-ten pieces * expanded	Getting It! I just need some more practice. Og# 20-21 Use each of these methods at least once: • base-ten pieces • expanded	Got It! I'm ready for a challenge. I's each of these methods at least once: • expanded form • compact
Can I Do This? Use different methods to	Working On It! Could use some extro help. *AQ# 17-20 Use each of these methods at least once: * base-ten pieces * expanded	Getting It! T just need some more practice. Q# 20-21 Use each of these methods at least once: • base-ten pieces • expanded form • compact	Got It! I'm ready for a challenge. I's each of these methods at least once: • expanded form • compact

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Answer Key • Lesson 5: Workshop: Subtraction

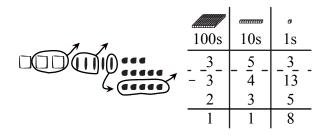


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17. 118;



18. 155;
$$327 = 300 + 20 + 7 = 200 + 120 + 7$$

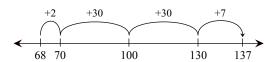
$$172 = 100 + 70 + 2 = 100 + 70 + 2$$

$$100 + 50 + 5 = 155$$

19. 569;

20. Strategies will vary.

A. 69;



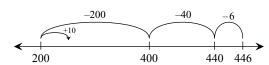
B. 120;

$$\frac{166}{-46}$$

C. 68;

$$542 = 500 + 40 + 2 = 400 + 130 + 12$$
$$474 = 400 + 70 + 4 = 400 + 70 + 4$$
$$0 + 60 + 8 = 68$$

D. 236;



E. 108; 232 -124

F. 4186;
$$\frac{{}^{13}_{3}}{7442}$$
 $\frac{{}^{2}_{3}}{4186}$

G. 52;
$$150 + \boxed{50} = 200$$

 $200 + \boxed{2} = 202$
 $50 + 2 = 52$

108

H. 1101; 2550
$$-\frac{1450}{1100} + 1 = 1101$$

- **21.** Strategies and preferred strategies will vary.
 - **A.** 102;

$$425 - 325 = 100 427$$

$$100 + 2 = 102 -325$$

$$102$$

B. 102;

C. 77;

$$598 + 2 = 600
600 + 75 = 675
75 + 2 = 77$$

$$56 15
673
673
- 598
77$$

D. 104;

$$\begin{array}{r}
456 & 460 \\
-356 & -356 \\
\hline
100 + 4 = 104 & 104
\end{array}$$

■21. • Using the Subtraction Stra	ategies Menu as a guide, show how to	
solve each problem using strategies. Circle the one y	two different strategies. Compare your	
 Use a mental math strateg Use each paper-and-pence 		
One Strategy	Another Strategy	1
	Another Strategy	ł
A. 427 – 325 =		
	+	ł
B. 400 – 298 =		
C. 675		Copyr
<u>- 598</u>		ght ©
		Kenda
		Hund
		Copyright ® Kendall Hunt Publishing Cor
D. 460 – 356		ghing

Did you try all of the strategies on the Subtraction Strategies Menu?

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Subtraction Quiz

Andy and Kris each solved the problem 340 – 289. Look at the two different methods.

Andy's Strategy Kris's Strategy
$$289 + (1) = 290$$
 2440
 -289
 51
 $300 + (4) = 340$

- 1. In Andy's solution, why did he write a 10 above the zero?
- 2. Which strategy do you like better for this problem? Why?
- 3. Solve 140 89 using Kris's Strategy and Andy's Strategy.

TG · Grade 3 · Unit 7· Lesson 5

Assessment Master

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Name	Date

Solve and check your answer. Use the Subtraction Strategies Menu.

- **4.** 629 –267
- **5.** 5001 –3287
- 6. Show how you checked your answer to Question 4.
- 7. Show how to solve 43 29 two different ways.

Subtraction Quiz Feedback Box

Apply place value concepts to make connections among representations of numbers. [Q# 1]

Subtract multidigit numbers using mental math strategies. [Q# 3-7]

Subtract multidigit numbers using paper-and-pencil methods. [Q# 3-7]

E4

Assessment Master

TG · Grade 3 · Unit 7 · Lesson 5 2

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Teacher Guide

Subtraction Quiz (TG pp. 1–2) Questions 1–7

- **I.** Andy traded 1 skinny (ten) for ten bits (ones).
- **2.** Answers will vary.

3. 51; 89 + (1)= 90
90 + (10)= 100

$$100 + (40)= 140$$

 $40 + 10 + 1 = 51$
 $100 + (40)= 140$
 $100 + (40)= 140$

- **4.** 362
- **5.** 1714
- 6. $\frac{{}^{1}_{362}}{{}^{+267}_{629}}$
- 7. 14; Strategies will vary.

$$43 = 40 + 3 = 30 + 13$$

$$29 = 20 + 9 = 20 + 9$$
$$10 + 4 = 14$$

$$29 + (1) = 30$$

$$30 + 13 = 43$$

$$13 + 1 = 14$$