Student Activity Book

Palindrome Recording Chart (SAB pp. 199–200) Questions A–H

	palino	Irome		1 step		2	step	\square	3 step
		, [\bigcirc	5 step			step		
0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	31	38	39
40	41	42	43	44	45	46	47	48	4 9
50	51	52	53	54	55	56	51	58	\triangleright
60	61	62	63	64	65	66	67	×	
70	71	72	78	74	75	76	77		- 79 -
80	81	82	83	84	85	×		88	89
90	91	92	98	94	×			98	99

	Pa	lind	rom	e Re	cor	ding	g Ch	art	
hoose e cha	a color	r for ea	ch kind	of pali	ndrome	. Find a	and col	or each	kind
	_						_	_	
	palind	rome	1	step		2 step		3 ste	p
	4 step)	5	step		6 step			
0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

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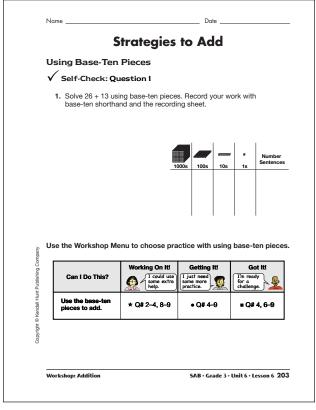
 Which problems Which problems quick notes? 	can you solve in your he	ing a number line or a few
A. 19 + 91	B. 64 + 46	C. 12 + 21
D. 97 + 79	E. 45 + 54	F. 31 + 13
G. Choose one p strategy.	roblem and show how you	u used a mental math

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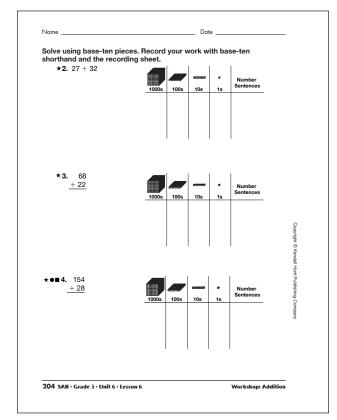
- **A.** 110**B.** 110
- **C.** 33
- **D.** 176
- **E.** 99
- **F.** 44
- **G.** Problems will vary. A mental math strategy for A: 19 + 91 = 20 + 90 = 110.
- **H.** Problems and methods will vary. 97 + 79 = 160 + 16 = 176.

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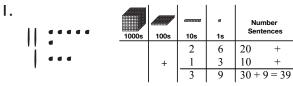


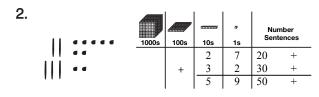
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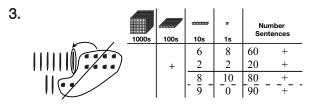


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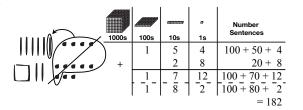
Strategies to Add (SAB pp. 203–214) Questions 1–21

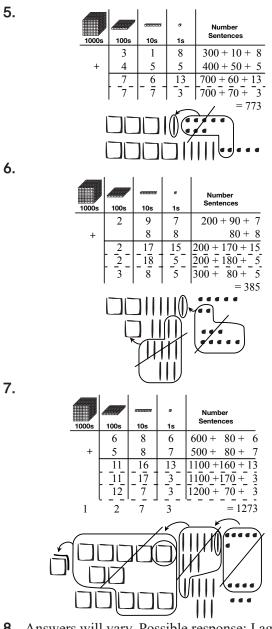






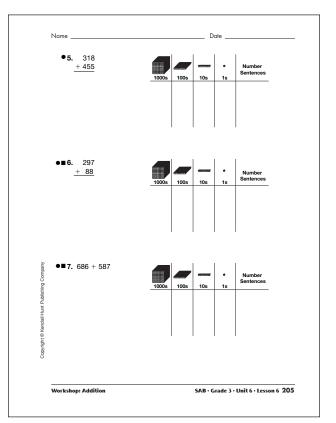




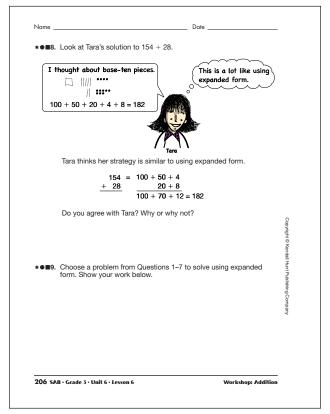


- 8. Answers will vary. Possible response: I agree with Tara. Tara thinks about the base-ten pieces she needs to represent the numbers she is adding together. She separates and groups the pieces by hundreds, tens, and ones. Then she combines the hundreds, tens, and ones to get an answer. That is like using expanded form because each of the numbers she needs to add together are broken apart into hundreds, tens, and ones are combined to get an answer.
- **9.** Problems will vary. One possible solution is given for Question 7:

$$\frac{686 = 600 + 80 + 6}{1100 + 160 + 13} = \frac{500 + 80 + 7}{1273}$$



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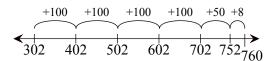
Using Mental N	-	ies	
✓ Self-Check: Q	uestions 10-11		
10. Use a mental ma	ath strategy to solv	e 64 + 59. Explai	n your strateg
≺ Use the Workshop M			
≺ Use the Workshop M strategies to add.	enu to choose pra	Inctice with using Getting It!	g mental mati

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Name _	Date
* 12.	Ms. Alfonso challenged the class to use a mental math strategy to solve each of the problems below. Grace and her classmates recorded their mental math strategies. Solve the problem next to each one using a similar strategy. Explain your thinking to your partner.
	341 + 99 = "I cook the 1 from the 341 and put it with the 99 right away. Now the problem is 340 + 100, which is casey. 440"
	B. 504 + 75 = "I thought about money." 150 + 25 = 175 + 7 = 182
	328 + 50 = "I made notes, but I pictured the number line to count on. I started at 528 and hopped +2 to 330. It is easier to hop on tens. After five +10 hops I land on 380. Hop back 2 to 378. 328 + 50 = 378 420^{-10} 40^{-10} 40^{-10} 50^{-10} $50^$
	$\begin{array}{c} 220 + 160 = \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
	B • Grade 3 • Unit 6 • Lesson 6 Workshop: Addition

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- 10. Mental math strategies will vary. One possible solution for 64 + 59: Think of 63 + 60. 60 + 60 + 3 = 123.
- **II.** Possible response:



- 12. A. Grace's method for 132 + 98: Take the 2 from the 132 and put it with 98. Now the problem is 130 + 100 = 230.
 - **B.** Peter's method for 504 + 75: Think about money. 500 + 75 = 575 + 4 = 579.
 - **C.** Ana's method for 352 + 98: Think about a number line. Start at 352 and hop forward 100 to get to 452 and then hop back 2 to 450.
 - **D.** Frank's method for 350 + 250: Separate out the hundreds and add 300 + 200. That is 500. Then 50 + 50 = 100. 500 + 100 = 600.

- **13.** Mental math strategies will vary. One possible solution for 548 + 132: Take 2 from 132 and add it to 548 to make 550. 550 + 130 = 680.
- 14. Mental math strategies will vary. One possible solution for 732 + 198: Take 2 from 732 and add it to 198 to make 200. 730 + 200 = 930.
- **I5. A.** 500
 - **B.** 1102
 - **C.** 338
 - **D.** 970
 - **E.** 1044
 - **F.** 1765
 - **G.** Problems and strategies will vary. One possible strategy for 325 + 175: Think about money and add 75 + 25 to make 100. Then add 300 + 100 + 100 = 500.

Name	Date
stra	e a mental math strategy to solve 548 + 132. Explain your ategy to your partner. Make some notes to record your partner ategy below. Include your partner's name.
E	
34	
stra	e a mental math strategy to solve 732 + 198. Explain your ategy to your partner. Make some notes to record your partner ategy below. Include your partner's name.
stra	ategy to your partner. Make some notes to record your partner
stra	ategy to your partner. Make some notes to record your partner
stra	ategy to your partner. Make some notes to record your partner
stra	ategy to your partner. Make some notes to record your partner
stra	ategy to your partner. Make some notes to record your partner ategy below. Include your partner's name.

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 15. Solve the following problems using a mental math strategy. Record your answer and explain your strategy to your partner. You do not need to write your strategy down, but you can jot down some notes. ● A. 325 + 175 = ● B. 604 + 498 = ● C. 130 + 208 = ● D. 849 + 121 = ◆ E. 747 + 297 = ★ ● E. 998 + 767 = ★ ● E. 6. Show how you solved one of the problems above by describing your strategy in the thought bubble below. 	Name	Date	_
 ★●■ E. 747 + 297 = ★●■ F. 998 + 767 = ★●■ G. Show how you solved one of the problems above by describing your strategy in the thought bubble below. 		your answer and explain your strategy to your partner. You do not nee to write your strategy down, but you can jot down some notes.	ed
 ★●■ G. Show how you solved one of the problems above by describing your strategy in the thought bubble below. 		●■ C. 130 + 208 = ●■ D. 849 + 121 =	
 ★ ●■ G. Show how you solved one of the problems above by describing your strategy in the thought bubble below. 		★●■ E. 747 + 297 = ★●■ F. 998 + 767 =	
and Publishing Company → o ^o		★●■ G. Show how you solved one of the problems above by describing your strategy in the thought bubble below.	Copyright ® Kendall H
			lunt Publishing Compar
	2		W

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Using Different			
Self-Check: Qu	lestion 16		
Jse the Addition Strate	gies Menu.		
16. Solve 48 + 37 usi	ing three different st	rategies or method	ls.
Jse the Workshop men	u to choose practi	ce with addition r	nethods.
Jse the Workshop men	u to choose practi Working On It!	ce with addition r	nethods. Got it!
Jse the Workshop men Can I Do This?	-		
-	Working On It!	Getting It!	Got It!
Can I Do This? Use different methods to add	Working On It!	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	Working On It!	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 add	Working On It!	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 add	Working On It! T could use help. *Q# 17-20 Use each of these methods at least once: • base-ten pieces	Getting It I just need some more practice. Use each of these methods at least once: • all-partials • expanded	Got It! I'm ready for a challenge. Cha
Can I Do This? Use different methods to add	Working On It! ↓ T could use tome extre help. ↓ Q# 17-20 Use each of these methods at least once: • base-ten pieces • expanded	Cetting It I just need some more practice. Use each of these methods at least once: • all-partials • expanded form	Got It! I'm ready for a challenge. Uge each of these methods at least once: • all-partials
Can I Do This? Use different methods to add	Working On It! Working On It! I could use body with the second with t	Getting It I just need practice PC# 20-21 Use each of these methods at least once: all-partials • expanded form • compact	Got It! I'm ready for a challenge. Cha
Can I Do This? Use different methods to add	Working On It! ↓ T could use tome extre help. ↓ Q# 17-20 Use each of these methods at least once: • base-ten pieces • expanded	Cetting It I just need some more practice. Use each of these methods at least once: • all-partials • expanded form	Got It! I'm ready for a challenge. Cha
Can I Do This? Use different methods to add	Working On It! Working On It! I could use body with the second with t	Getting It I just need practice PC# 20-21 Use each of these methods at least once: all-partials • expanded form • compact	Got It! I'm ready for a challenge. Cha
Can I Do This? Use different methods to add	Working On It! Working On It! I could use body with the second with t	Getting It Just need some more practica: Use each of these methods at least once: • all-partials • expanded form • compact method	Got It! I'm ready for a challenge. Cha

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Name	Date
★17. Here is how Sam solved 343 + 276.	Use the same method to solve 83 + 738.
343 000 00 00 00 00 00 00 00 00 00 00 00 0	
300 + 200 + 100 + 10 + 9 = 619	
\circ \circ	
 ★18. Here is how Nisha solved 328 + 172. 	Use the same method to solve $473 + 279$.
$\frac{328 = 300 + 20 + 8}{400 + 70 + 2} = \frac{100 + 70 + 2}{400 + 90 + 10} = 500$	
$\sim \sim \sim$	
★19. Here is how Josh solved 329 + 476.	Use the same method to solve 847 + 278.
329	
+ 476	
90	
<u>15</u> 805	
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16. Strategies and methods will vary.

Three possible solutions for 48 + 37:

Use mental math: Take 2 from 37 to make 50, and 50 + 35 = 85.

Use all-partials:

$$\begin{array}{r}
48\\
+37\\
\hline
70\\
\underline{15}\\
85\end{array}
\end{array}$$

Use expanded form:

$$48 = 40 + 8 + 37 = 30 + 7 70 + 15 = 85$$

17.

_

300 + 20 + 1 = 821

$$800 + 20 + 1 = 821$$

 $473 - 400 + 70 + 100$

18.
$$473 = 400 + 70 + 3$$
$$+ 279 = 200 + 70 + 9$$
$$600 + 140 + 12 = 752$$

847

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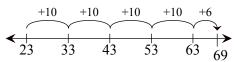
- **20.** Strategies and methods will vary. One possible solution strategy is given for each problem.
 - A. 205; All-partials:
 - $\begin{array}{r}
 137 \\
 + 68 \\
 \overline{15} \\
 90 \\
 \underline{100} \\
 205
 \end{array}$
 - **B.** 112; Compact method:
 - **C.** 81; Mental math for 35 + 46: Separate the tens and add 30 + 40 = 70. Add the ones, 5 + 6 = 11. 70 + 11 = 81.
 - **D.** 656; Expanded form:

$$\frac{446}{-210} = \frac{400 + 40 + 6}{200 + 10}$$
$$\frac{446}{-200} = \frac{200 + 10}{-600 + 50 + 6} = 656$$

E. Use base-ten pieces:

300 + 50 + 6 = 356

- **F.** 3884; Compact method:
 - $\begin{array}{r}
 1 \\
 1448 \\
 + 2436 \\
 \overline{3884}
 \end{array}$
- **G.** 69; Use a number line for 23 + 46: Start at 23 and hop forward four +10 hops to 63. Then hop 6 more to 69.



H. 5784; All-partials:

	2558
+	3226
	5000
	700
	70
	14
	5784

_

*●■20.	Strategies Menu as a gi	u to choose your own strategies and llowing problems. Use the <i>Addition</i> lide.
	A. 137 + 68	B. 66 <u>+46</u>
	C. 35 + 46	D. 446 + 210
	E. 232 + 124	F. 1448 +2436
	G. 23 _+46	н. 2558 + 3226
Workshop	: Addition	SAB • Grade 3 • Unit 6 • Lesson 6 ;

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One Strategy	il strategy at least once. Another Strategy
A. 375 + 427 =	Another Outlogy
B. 498 + 204 =	
C. 127 + 786	
D. 366 + 252	

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- **21.** Strategy solutions will vary.
 - **A.** 802
 - **B.** 702
 - **C.** 913
 - **D.** 618