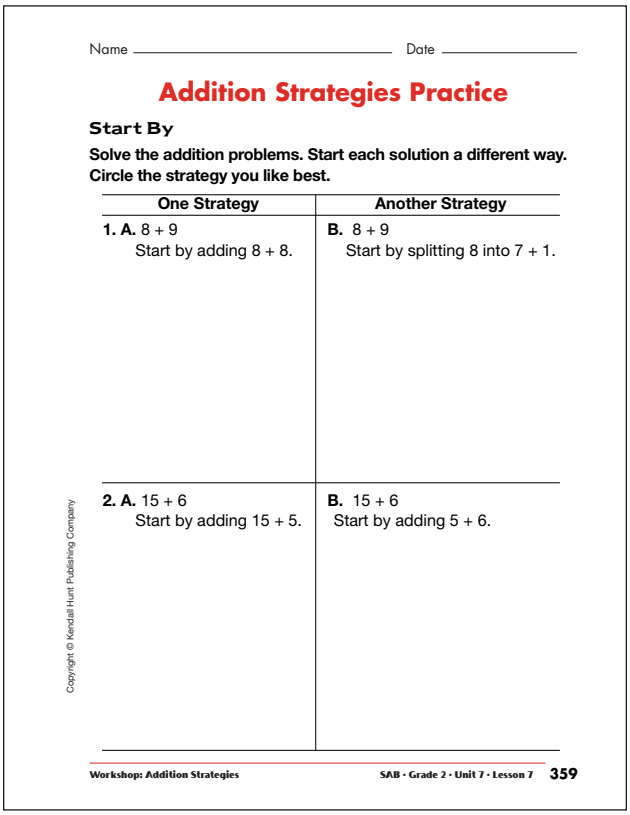
Student Activity Book

Addition Strategies Practice (SAB pp. 359–364) Questions 1–17

1. **A.** 8 + 8 = 16; 16 + 1 = 17
   B. 9 + 1 = 10; 10 + 7 = 17
2. **A.** 15 + 5 = 20; 20 + 1 = 21
   B. 5 + 6 = 11; 11 + 10 = 21
3. **A.** 7 + 3 = 10; 10 + 10 + 10 = 30
   B. 17 + 3 = 20; 20 + 10 = 30
4. **A.** 25 + 10 = 35; 35 + 4 = 39
   B. 5 + 4 = 9; 9 + 20 + 10 = 39
5. **A.** 32 + 10 + 10 = 52; 52 – 1 = 51
   B. 19 + 1 = 20; 20 + 30 = 50; 50 + 1 = 51



Name _____ Date _____

Addition Strategies Practice

Start By

Solve the addition problems. Start each solution a different way. Circle the strategy you like best.

One Strategy	Another Strategy
1. A. 8 + 9 Start by adding 8 + 8.	**B.** 8 + 9 Start by splitting 8 into 7 + 1.
2. A. 15 + 6 Start by adding 15 + 5.	**B.** 15 + 6 Start by adding 5 + 6.

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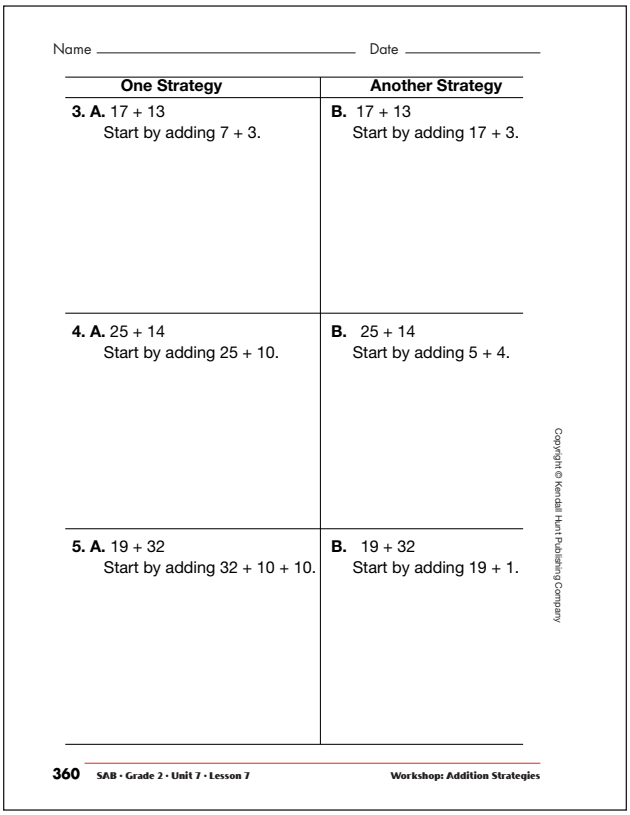
Student Activity Book - Page 359



Name _____ Date _____

One Strategy	Another Strategy
3. A. 17 + 13 Start by adding 7 + 3.	**B.** 17 + 13 Start by adding 17 + 3.
4. A. 25 + 14 Start by adding 25 + 10.	**B.** 25 + 14 Start by adding 5 + 4.
5. A. 19 + 32 Start by adding 32 + 10 + 10.	**B.** 19 + 32 Start by adding 19 + 1.

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Addition Practice I

Some students started solving problems. Finish their work in Questions 6–8. Then use their strategy to solve a different problem.

Complete the Problem	Use the Strategy
6. A. Finish Sam's work. 23 = 20 + 3 + 36 =	**B.** Solve it Sam's way. 47 + 52
7. A. Finish Miguel's work. 142 + 34 __6	**B.** Solve it Miguel's way. 238 + 61
8. A. Finish Diana's work. 19 + 32 11 ☐ ☐	**B.** Solve it Diana's way. 67 + 25

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***Student Activity Book* - Page 361**

Name _____ Date _____

Solve each of the following problems using two different strategies. Compare answers. Circle the strategy you like best.

Complete the Problem	Another Strategy
9. A. ☐ 62 + 19 __1	**B.** Use a mental math strategy. 62 + 19 62
10. A. 236 ☐☐ ||| ⋮⋮ + 48 ||| ⋮⋮ ☐	**B.** Use a paper-and-pencil method. 236 + 48
11. A. 247 + 134 11 70 ☐ ☐	**B.** Solve it another way. 247 + 134

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***Student Activity Book* - Page 362**

6. A.
$$\begin{array}{r} 23 = 20 + 3 \\ +\ 36 = 30 + 6 \\ \hline 50 + 9 = 59 \end{array}$$

B.
$$\begin{array}{r} 47 = 40 + 7 \\ +\ 52 = 50 + 2 \\ \hline 90 + 9 = 99 \end{array}$$

7. A.
$$\begin{array}{r} 142 \\ +\ 34 \\ \hline 176 \end{array}$$

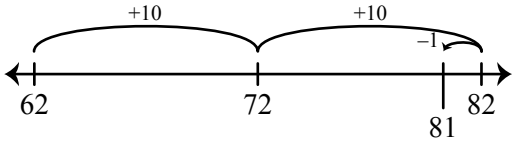
B.
$$\begin{array}{r} 238 \\ +\ 61 \\ \hline 299 \end{array}$$

8. A.
$$\begin{array}{r} 19 \\ +\ 32 \\ \hline 11 \\ 40 \\ \hline 51 \end{array}$$

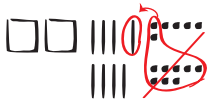
B.
$$\begin{array}{r} 67 \\ +\ 25 \\ \hline 80 \\ 12 \\ \hline 92 \end{array}$$

9. A.
$$\begin{array}{r} {\scriptstyle 1} \\ 62 \\ +\ 19 \\ \hline 81 \end{array}$$

B. Mental math strategies will vary. Possible response:



10. A.
$$\begin{array}{r} 236 \\ +\ 48 \\ \hline 284 \end{array}$$



B. Paper-and-pencil methods will vary. Possible response:

$$\begin{array}{r} 236 \\ +\ 48 \\ \hline 200 \\ 70 \\ 14 \\ \hline 284 \end{array}$$

11. A.
$$\begin{array}{r} 247 \\ +\ 134 \\ \hline 11 \\ 70 \\ 300 \\ \hline 381 \end{array}$$

B. Strategies will vary. Possible response:

$$\begin{array}{r} 247 = 200 + 40 + 7 \\ +\ 134 = 100 + 30 + 4 \\ \hline 300 + 70 + 11 = 381 \end{array}$$

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12. A.
$$\begin{array}{r} {\scriptstyle 1} \\ 68 \\ +\,28 \\ \hline 96 \end{array}$$

B.
$$\begin{array}{r} {\scriptstyle 1} \\ 79 \\ +\,65 \\ \hline 144 \end{array}$$

13. A.
$$\begin{array}{r} 168 = 100 + 60 + 8 \\ +\,154 = 100 + 50 + 4 \\ \hline 200 + 110 + 12 = 322 \end{array}$$

B.
$$\begin{array}{r} 179 = 100 + 70 + 9 \\ +\,156 = 100 + 50 + 6 \\ \hline 200 + 120 + 15 = 335 \end{array}$$

14. A.
$$\begin{array}{r} 173 \\ +\,147 \\ \hline 200 \\ 110 \\ 10 \\ \hline 320 \end{array}$$

B.
$$\begin{array}{r} 162 \\ +\,189 \\ \hline 200 \\ 140 \\ 11 \\ \hline 351 \end{array}$$

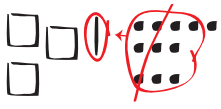
15. A.
118 → 128 → [138] → 148 → [149] → [150]

B. Paper-and-pencil methods will vary. Possible response:
$$\begin{array}{r} 118 \\ +\,32 \\ \hline 100 \\ 40 \\ 10 \\ \hline 150 \end{array}$$

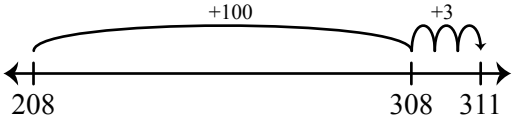
16. A.
$$\begin{array}{r} {\scriptstyle 1} \\ 98 \\ +\,25 \\ \hline 123 \end{array}$$

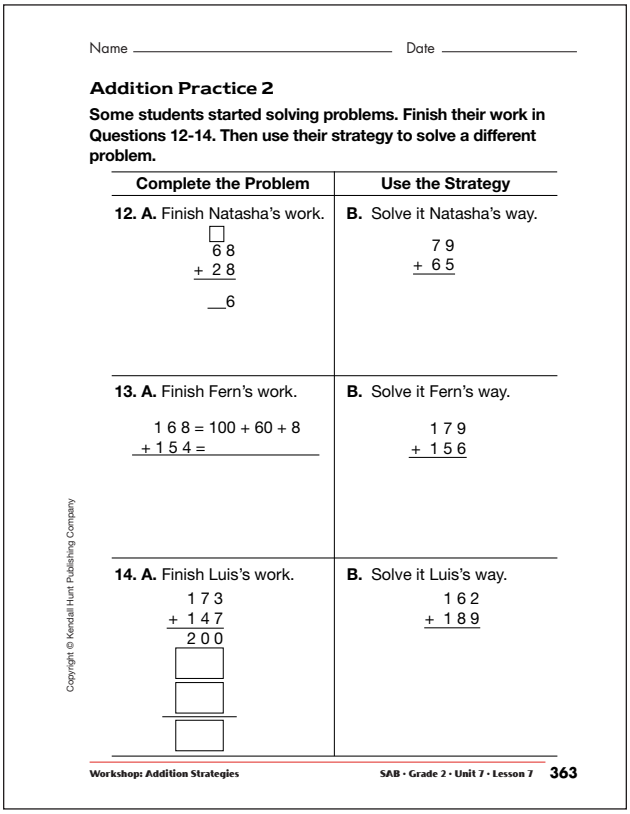
B. Mental math strategies will vary. Possible response: Take 2 from 25 and add it to 98 to make 100. 100 + 23 = 123.

17. A.
$$\begin{array}{r} 208 \\ +\,103 \\ \hline 311 \end{array}$$



B. Strategies will vary. Possible response:





Name _____ Date _____

Addition Practice 2

Some students started solving problems. Finish their work in Questions 12-14. Then use their strategy to solve a different problem.

Complete the Problem	Use the Strategy
12. A. Finish Natasha's work. □ 68 + 28 = □6	**B.** Solve it Natasha's way. 79 + 65
13. A. Finish Fern's work. 168 = 100 + 60 + 8 +154 =	**B.** Solve it Fern's way. 179 + 156
14. A. Finish Luis's work. 173 + 147 = 200 □ □ □	**B.** Solve it Luis's way. 162 + 189

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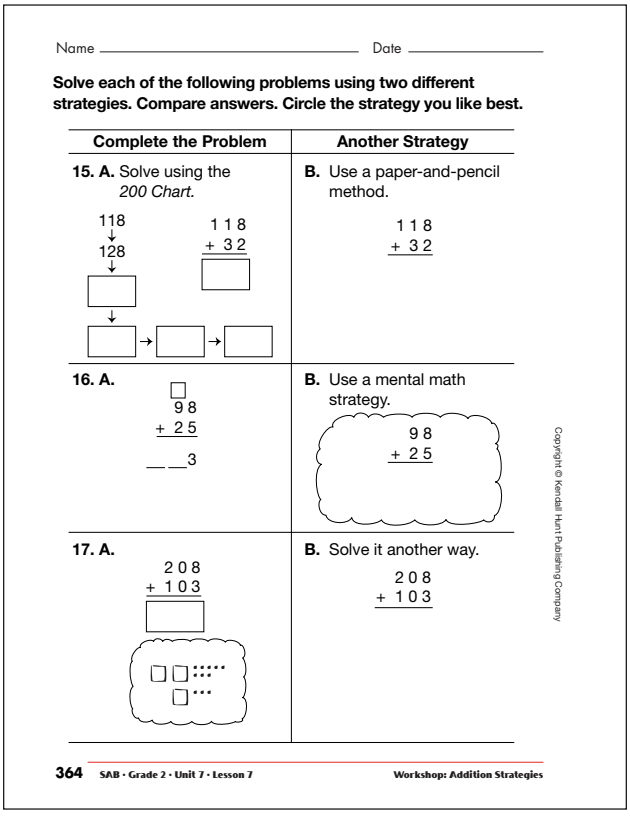
***Student Activity Book* - Page 363**



Name _____ Date _____

Solve each of the following problems using two different strategies. Compare answers. Circle the strategy you like best.

Complete the Problem	Another Strategy
15. A. Solve using the *200 Chart.* 118 → 128 → □ → □ → □ → □	**B.** Use a paper-and-pencil method. 118 + 32
16. A. □ 98 + 25 = □□3	**B.** Use a mental math strategy. 98 + 25
17. A. 208 + 103 = □	**B.** Solve it another way. 208 + 103

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Addition Strategies Quiz

Roberto, Nila, and Michael solved a problem using different paper-and-pencil methods.

Roberto's Solution	Nila's Solution	Michael's Solution
56 = **50** + 6 28 = 20 + 8 70 + 14 = 84	56 + 28 70 + **14** 84	$\overset{1}{5}6$ + 28 84

1. In Roberto's solution, why did he write 50 instead of 5 after the equal sign in the first row?

2. In Nila's solution, where does the 14 come from?

3. In Michael's solution, what does the little 1 above the 5 mean?

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***Student Activity Book* - Page 369**

Name _____ Date _____

4. Estimate and solve using a mental math strategy.
Estimate:

$$\begin{array}{r} 42 \\ +\ 19 \\ \hline \end{array}$$

5. Estimate and solve using a paper-and-pencil strategy.
Estimate:

$$\begin{array}{r} 76 \\ +\ 58 \\ \hline \end{array}$$

6. **A.** Estimate and solve using any strategy.
Estimate:

$$\begin{array}{r} 239 \\ +\ 143 \\ \hline \end{array}$$

B. How do you know your answer is reasonable?

C. Solve the problem another way to check your answer.

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***Student Activity Book* - Page 370**

Addition Strategies Quiz (SAB pp. 369–370) Questions 1–6

1. The 5 in 56 is in the tens place, so it represents 50.
2. She added the ones (bits).
6 bits + 8 bits = 14 bits
3. Michael had ten bits that he traded for a skinny.
4. **A.** Estimates may vary. 61;
42 + 10 + 10 – 1 = 61
5. Estimates and strategies may vary.

$$\begin{array}{r} 134;\ \ 76 \\ +\ 58 \\ \hline 120 \\ +\ 14 \\ \hline 134 \end{array} \quad \text{or} \quad \begin{array}{r} \overset{1}{7}6 \\ +\ 58 \\ \hline 134 \end{array}$$

or $76 = 70 + 6$
$+\ 58 = 50 + 8$
$120 + 14 = 134$

6. **A.** Estimates and strategies may vary. Using friendly numbers: 240 + 140 = 380;

$$\begin{array}{r} \overset{1}{2}39 \\ +\ 143 \\ \hline 382 \end{array}$$

B. Possible response: I know my answer is reasonable because I estimated a sum of 380 and my answer was very close.

C. Strategies will vary. Possible response:

$$\begin{array}{r} 239 \\ +\ 143 \\ \hline 300 \\ 70 \\ 12 \\ \hline 382 \end{array}$$

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