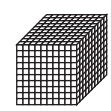
Name _____ Date _____

Strategies to Add

Using Base-Ten Pieces

Self-Check: Question 1

1. Solve 426 + 113 using base-ten pieces. Record your work with base-ten shorthand and the recording sheet.



1000s	100s	10s	1s	Number Sentences

Use the Workshop Menu below to choose problems that meet your needs.

Workshop Menu			
Can I Do This?	**▲ Working On It!** 	**● Getting It!** 	**■ Got It!** 
Use base-ten pieces to add or subtract.	**Questions 2–4, 9–10**	**Questions 3–7, 9–10**	**Questions 6–10**

Name _____ Date _____

2. 396 – 162

1000s	100s	10s	1s	Number Sentences

3. 3857
+ 1326

1000s	100s	10s	1s	Number Sentences

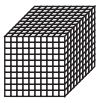
4. 1681 – 436

1000s	100s	10s	1s	Number Sentences

Name _____ Date _____

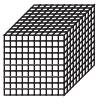
5.

$$\begin{array}{r} 318 \\ +\ 455 \\ \hline \end{array}$$

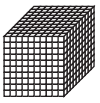
 1000s	 100s	10s	1s	Number Sentences

6.

$$\begin{array}{r} 927 \\ -\ 645 \\ \hline \end{array}$$

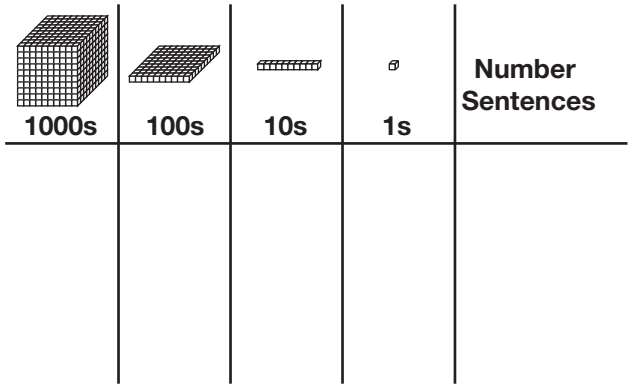
 1000s	 100s	10s	1s	Number Sentences

7. 1269 + 563

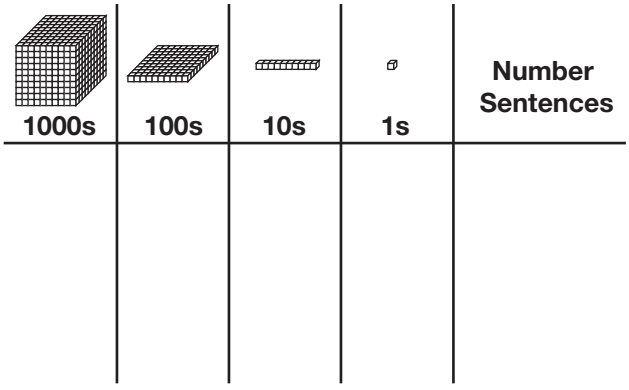
 1000s	 100s	10s	1s	Number Sentences

Name _____ Date _____

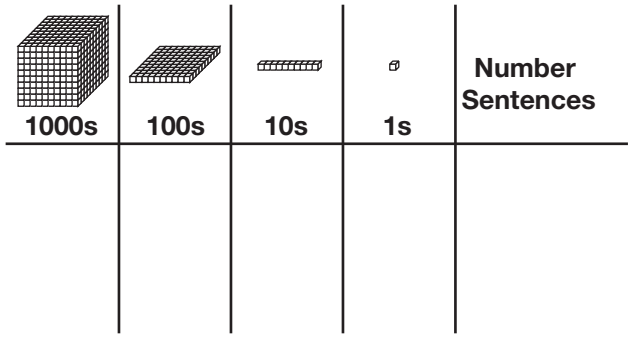
8. 2772
− 1386



9. 834 – 89



10. 196
+ 587

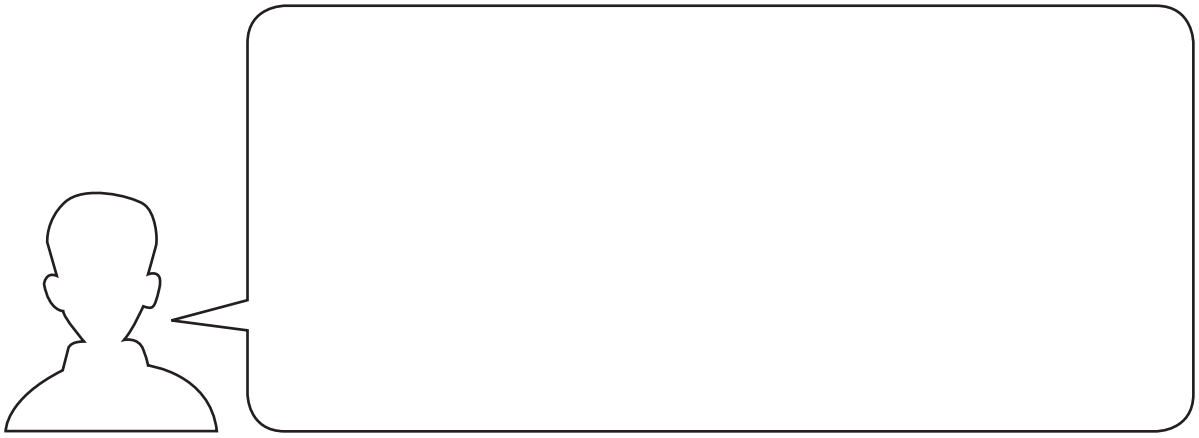


Name _____ Date _____

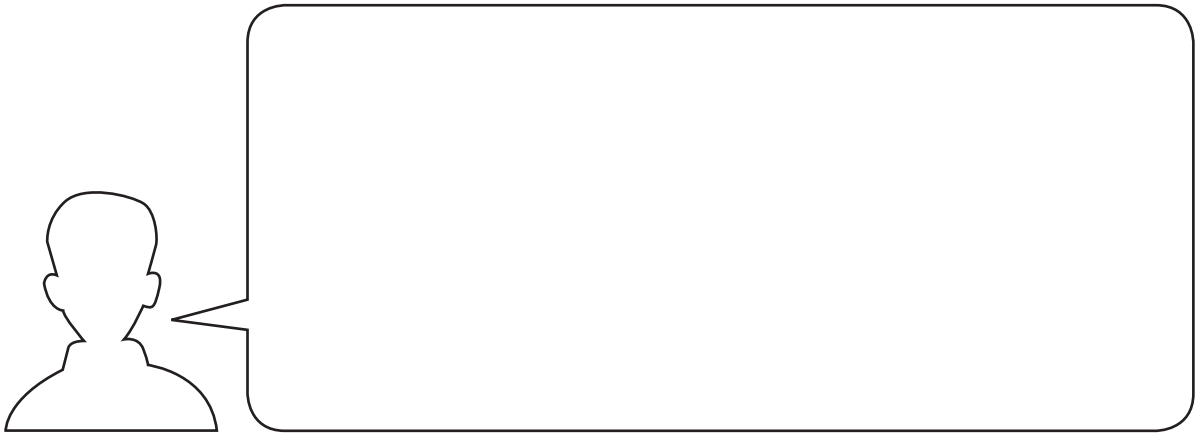
Using Mental Math Strategies

Self-Check: Questions 11–12

11. Use a mental math strategy to solve 352 + 48. Explain your strategy. Make some notes below.



12. Use a mental math strategy to solve 907 – 48. Explain your strategy. Make some notes below.



Workshop Menu

Can I Do This?	▲ Working On It!	● Getting It!	■ Got It!
	I could use some extra help.  Roberto	I just need some more practice.  Michael	I'm ready for a challenge.  Lee Yah
Use mental math strategies to add or subtract.	**Questions 13–15, 16E–G**	**Questions 14–16**	**Questions 15–16**

Name _____ Date _____

▲ **13.** Mrs. Dewey 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.

541 + 199 =

"I took the 1 from the 541 and put it with the 199 right away. Now the problem is 540 + 200, which is easy, 740"

A. 232 + 198 =

252 − 125 =

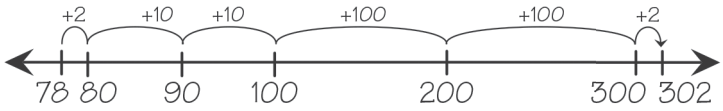
"I thought about money."

250 − 125 = 125 and 125 + 2 = 127

B. 504 − 75 =

302 − 78 =

"I made notes, but I pictured the number line and counted up. My hops were 2, 10, 10, 100, 100, 2. That is 224."



C. 352 − 98 =

2020 + 1260 =

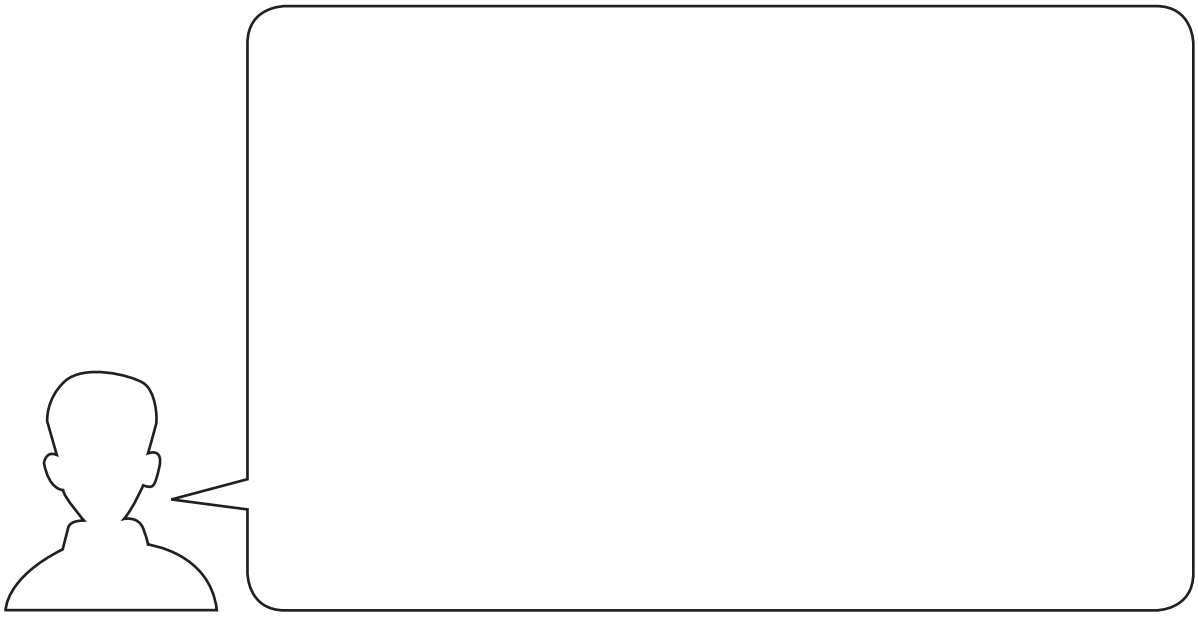
"I separated out the thousands. I added 2000 + 1000. That is 3000. Then, 20 + 260 = 280, so my answer is 3000 + 280 = 3280."

2000 + 20
1000 + 260
3000 + 280

D. 3150 + 2550 =

Name _____ Date _____

▲● **14.** Use a mental math strategy to solve 302 – 77. Explain your strategy to your partner. Make some notes to record your partner's strategy below. Include your partner's name.



▲●■ **15.** Use a mental math strategy to solve 2056 + 1144. Explain your strategy to your partner. Make some notes to record your partner's strategy below. Include your partner's name.

Name _____ Date _____

16. 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.

□●■ **A.** 425 + 175 =

□●■ **B.** 604 – 498 =

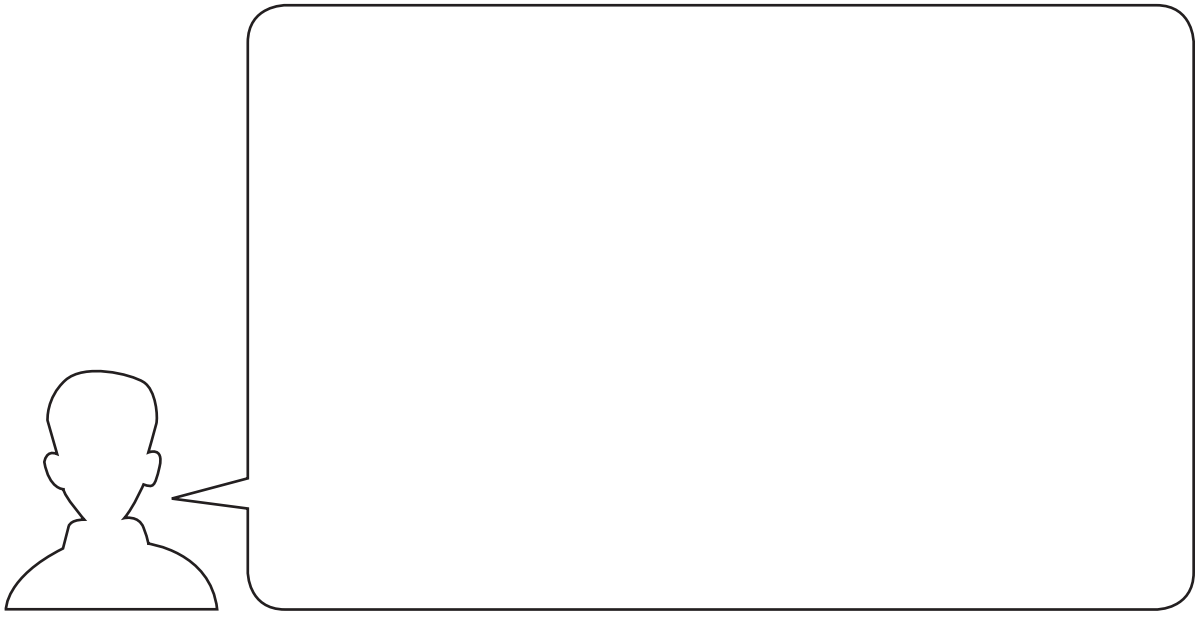
□●■ **C.** 130 + 208 =

□●■ **D.** 849 – 121 =

▲●■ **E.** 747 + 297 =

▲●■ **F.** 8000 – 7498 =

▲●■ **G.** Show how you solved one of the problems above by describing your strategy in the speech balloon below.



Name _____ Date _____

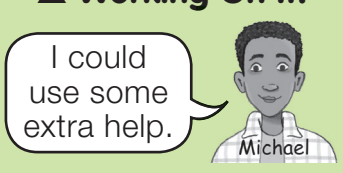
Using Paper and Pencil

Self-Check: Questions 17–18

Solve each problem two ways. Choose base-ten shorthand or a paper-and-pencil method (expanded form, all-partials, or compact).

Problem	One Strategy	Another Strategy
17. 48 + 37		
18. 137 − 68		

Workshop Menu

Can I Do This?	▲ Working On It!	● Getting It!	■ Got It!
			
Use paper and pencil methods to add or subtract.	Questions 19–22	Questions 21–24	Questions 22–25

Name _____ Date _____

Solve each problem two ways. Choose base-ten shorthand or a paper-and-pencil method (expanded form, all-partials, or compact).

Problem	One Strategy	Another Strategy
▲□□ **19.** 35 + 46		
▲□□ **20.** 63 + 59		
▲●□ **21.** 95 – 37		

Name _____ Date _____

Problem	One Strategy	Another Strategy
 **22.** 286 – 169		
 **23.** 1158 + 3275		
 **24.** 2318 – 1149		
 **25.** 4216 – 2597		

Name _____ Date _____

Choosing a Strategy

Self-Check: Questions 26–28

Solve each of the following problems using an appropriate strategy. Choose from mental math strategies, paper-and-pencil strategies, and estimation strategies. Show your written work. Be prepared to explain your thinking.

26. Room 204 collected between 150 and 160 box tops each week. About how many will they collect in 3 weeks?

27. Mrs. Dewey's class collected 391 box tops and Mr. Bookler's class collected 408 box tops. How many did they collect altogether?

28. Mr. Trimmer's class collected 284 box tops during 3 weeks. The class collected 149 the first week. How many box tops were collected during the last two weeks?

Workshop Menu

Can I Do This?	▲ Working On It!	● Getting It!	■ Got It!
			
Choose an appropriate addition or subtraction strategy.	**Questions 29–30, 33–35**	**Questions 30–35**	**Questions 31–35**

Name _____ Date _____

▲□□ **29.** Decide whether a mental math or paper-and-pencil strategy makes sense for each of the following problems. Check the strategy type you chose. Show your written work. Be prepared to share your mental math strategy.

Problem	Mental Math	Paper-and-Pencil	Describe your mental math or your paper-and-pencil strategy
125 + 177	✓		302. I thought about money. 125 + 175 = 300 plus 2 more equals 302.
283 + 645		✓	283 = 200 + 80 + 3 + 645 = 600 + 40 + 5 800 + 120 + 8 = 800 + 128 = 928
A. 794 – 210			
B. 1005 + 3126			
C. 633 + 484			
D. 401 – 269			

▲●□ **30.** Choose a problem from above and explain how you can solve it using mental math.

Name _____ Date _____

Solve each of the following problems using an appropriate strategy. Choose from mental math strategies, paper-and-pencil strategies, and estimation strategies. Show your written work. Be prepared to explain your thinking.

●■ **31.** The Student Council was raising money for a school project by selling raffle tickets. They sold 1267 tickets the first week and 2013 tickets the second week. How many tickets have they sold?

●■ **32.** The council collected $7022 from raffle tickets but had to spend $405 for prizes. How much money does the Student Council have left?

▲●■ **33.** The Student Council sells between 250 and 400 tickets each day. About how many tickets will they sell in 3 days?

▲●■ **34.** The students sold 2413 tickets the third week and 849 tickets the fourth week. How many tickets were sold during these two weeks?

▲●■ **35.** Choose a problem in Questions 31–34 that you can solve using mental math. Explain your strategy.