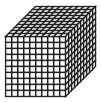
Name _____ Date _____

Strategies to Add

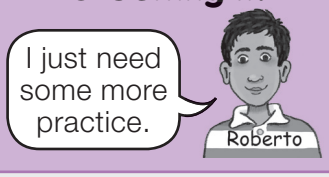
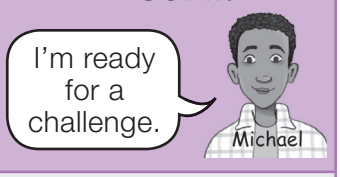
Using Base-Ten Pieces

Self-Check: Question 1

1. Solve 26 + 13 using base-ten pieces. Record your work with base-ten shorthand and the recording sheet.

 1000s	 100s	10s	1s	Number Sentences

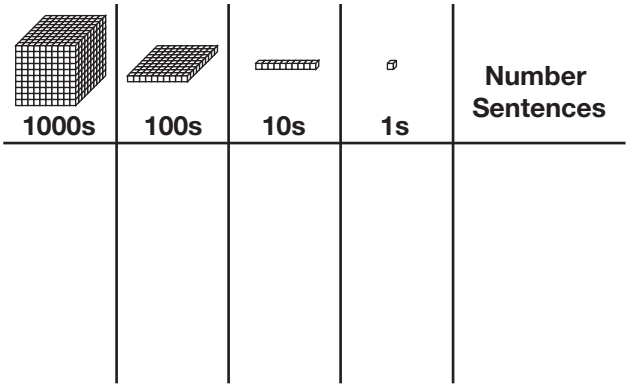
Use the Workshop Menu to choose practice with using base-ten pieces.

Workshop Menu			
Can I Do This?	**▲ Working On It!** 	**● Getting It!** 	**■ Got It!** 
Use the base-ten pieces to add.	**Questions 2–4, 8–9**	**Questions 4–9**	**Questions 4, 6–9**

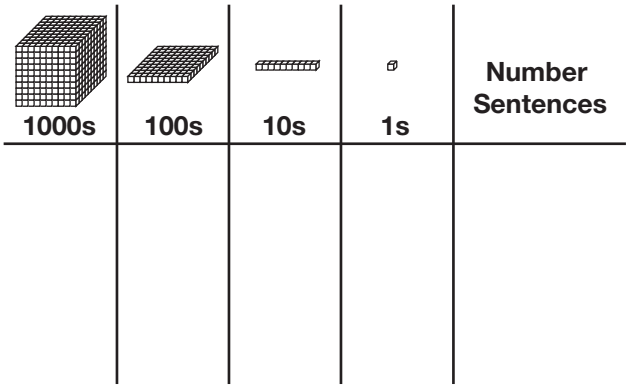
Name _____ Date _____

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

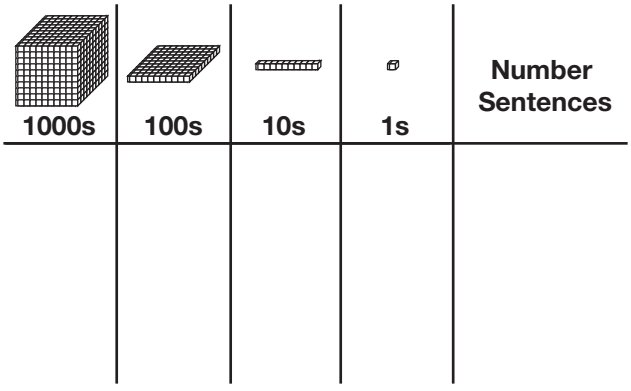
▲□□ **2.** 27 + 32



▲□□ **3.** 68
+ 22

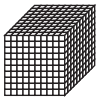
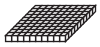


▲●■ **4.** 154
+ 28

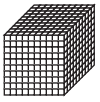
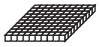


Name _____ Date _____

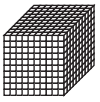
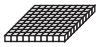
5. 318
+ 455

 1000s	 100s	10s	1s	Number Sentences

6. 297
+ 88

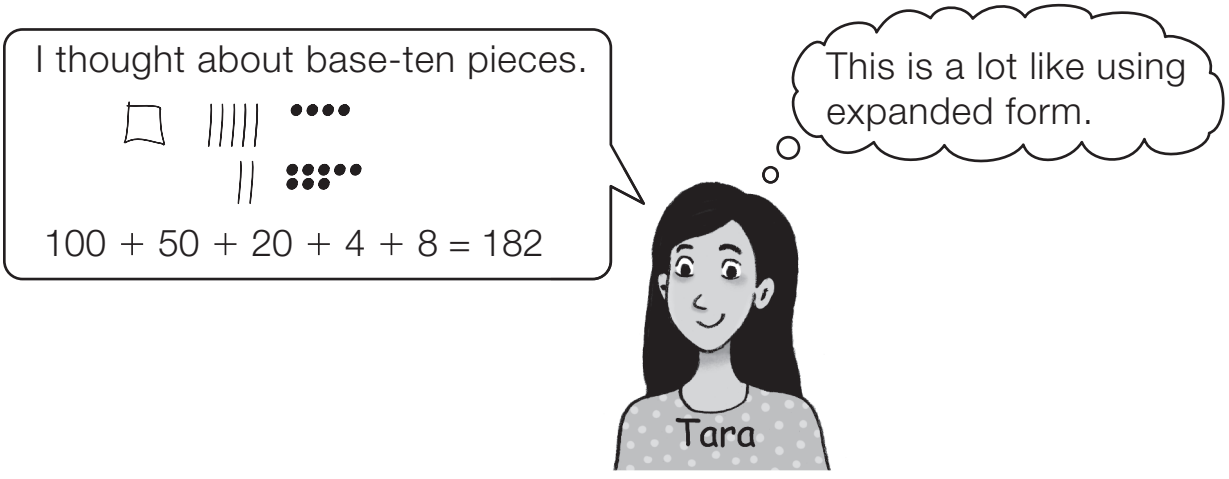
 1000s	 100s	10s	1s	Number Sentences

7. 686 + 587

 1000s	 100s	10s	1s	Number Sentences

Name _____ Date _____

▲●■ **8.** Look at Tara's solution to 154 + 28.



Tara thinks her strategy is similar to using expanded form.

$$\begin{array}{rcl} 154 & = & 100 + 50 + 4 \\ +\ 28 & & \quad\ 20 + 8 \\ \hline & & 100 + 70 + 12 = 182 \end{array}$$

Do you agree with Tara? Why or why not?

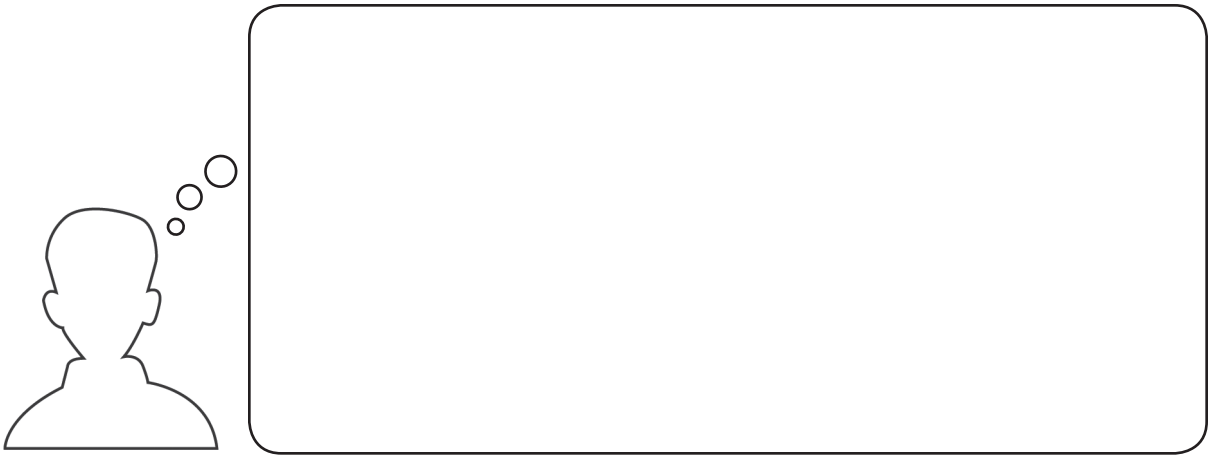
▲●■ **9.** Choose a problem from Questions 1–7 to solve using expanded form. Show your work below.

Name _____ Date _____

Using Mental Math Strategies

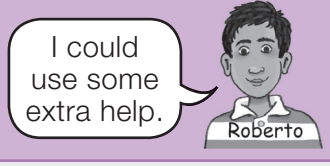
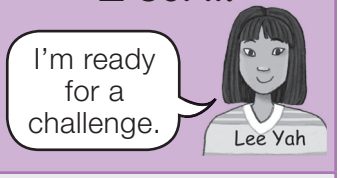
Self-Check: Questions 10–11

10. Use a mental math strategy to solve 64 + 59. Explain your strategy.



11. Use a number line to show how to solve 458 + 302.

Use the Workshop Menu to choose practice with using mental math strategies to add.

Workshop Menu			
Can I Do This?	**▲ Working On It!** 	**● Getting It!** 	**■ Got It!** 
Use mental math strategies to add.	**Questions 12–14, 15E–G**	**Questions 13–15**	**Questions 14–15**

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 took the 1 from the 341 and put it with the 99 right away. Now the problem is 340 + 100, which is easy, 440."

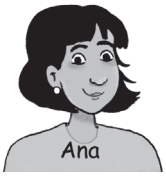
A. 132 + 98 =

157 + 25=

"I thought about money."

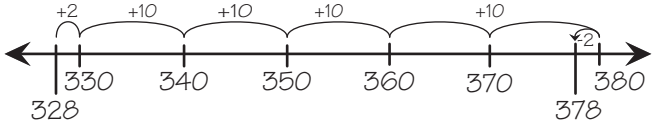
150 + 25 = 175 + 7 = 182

B. 504 + 75 =



328 + 50 =

"I made notes, but I pictured the number line to count on. I started at 328 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."



C. 352 + 98 =

220 + 160 =

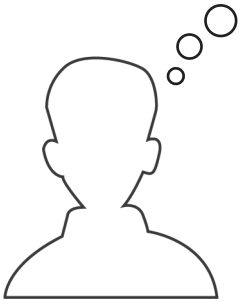
"I separated out the hundreds. I added 200 + 100. That is 300. Then 20 + 60 = 80, so my answer is 300 + 80 = 380."

200 + 20
100 + 60
300 + 80

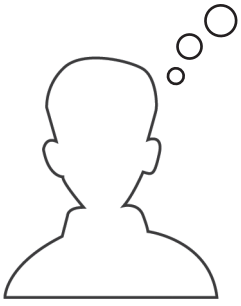
D. 350 + 250 =

Name _____ Date _____

▲●□ **13.** Use a mental math strategy to solve 548 + 132. Explain your strategy to your partner. Make some notes to record your partner's strategy below. Include your partner's name.



▲●■ **14.** Use a mental math strategy to solve 732 + 198. Explain your strategy to your partner. Make some notes to record your partner's strategy below. Include your partner's name.



Name _____ Date _____

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 =

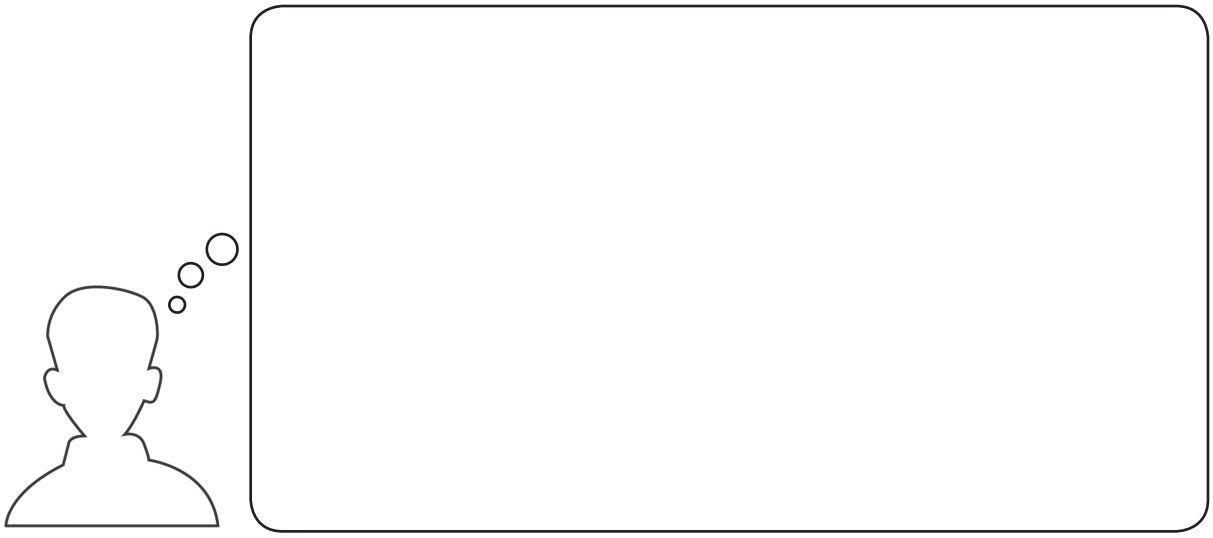
●■ **C.** 130 + 208 =

●■ **D.** 849 + 121 =

▲●■ **E.** 747 + 297 =

▲●■ **F.** 998 + 767 =

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



Name _____ Date _____

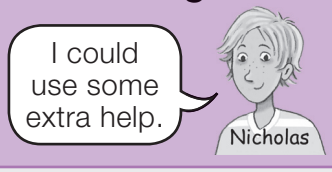
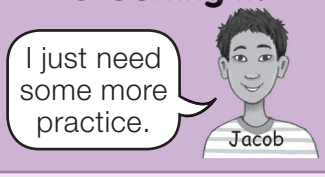
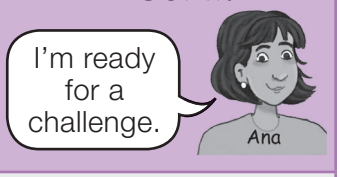
Using Mental Math Strategies

Self-Check: Question 16

Use the *Addition Strategies Menu*.

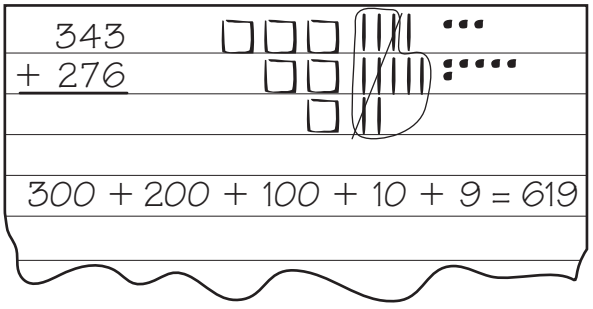
16. Solve 48 + 37 using three different strategies or methods.

Use the Workshop menu to choose practice with addition methods.

Workshop Menu			
Can I Do This?	**▲ Working On It!** 	**● Getting It!** 	**■ Got It!** 
Use different methods to add multidigit numbers.	**Questions 17–20** **Use each of these methods at least once:** **• base-ten pieces** **• expanded form** **• all-partials**	**Questions 20–21** **Use each of these methods at least once:** **• all-partials** **• expanded form** **• compact method**	**Questions 20–21** **Use each of these methods at least once:** **• all-partials** **• compact method**

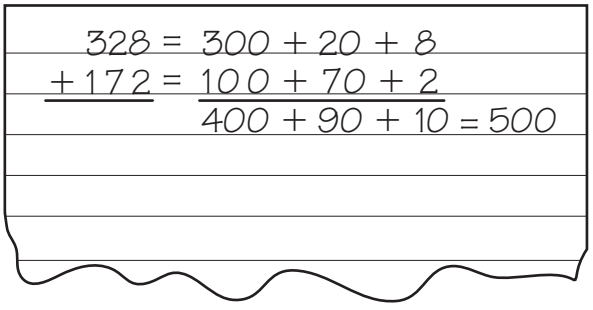
Name _____ Date _____

▲□□ **17.** Here is how Sam solved 343 + 276.



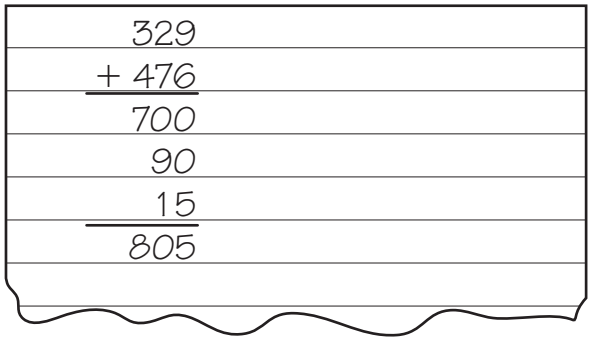
Use the same method to solve 83 + 738.

▲□□ **18.** Here is how Nisha solved 328 + 172.



Use the same method to solve 473 + 279.

▲□□ **19.** Here is how Josh solved 329 + 476.



Use the same method to solve 847 + 278.

Name _____ Date _____

▲●■ **20.** Use the Workshop Menu to choose your own strategies and methods to solve the following problems. Use the *Addition Strategies Menu* as a guide.

A. 137 + 68

B.
$$\begin{array}{r} 66 \\ +\ 46 \\ \hline \end{array}$$

C. 35 + 46

D. 446 + 210

E. 232 + 124

F.
$$\begin{array}{r} 1448 \\ +2436 \\ \hline \end{array}$$

G.
$$\begin{array}{r} 23 \\ +\ 46 \\ \hline \end{array}$$

H. 2558 + 3226

Name _____ Date _____

21. • **Using the *Addition Strategies Menu* as a guide, show how to solve each problem using two different strategies. Compare your strategies. Circle the one you like best.**

• **Use a mental math strategy at least three times.**

• **Use each paper-and-pencil strategy at least once.**

One Strategy	Another Strategy
A. 375 + 427 =	
B. 498 + 204 =	
C. 127 + 786	
D. 366 + 252	

Did you try all of the strategies on the *Addition Strategies Menu*?