

Place Value and Addition Quiz

1. Sketch 2782 using base-ten shorthand.

2. Solve this problem using base-ten pieces or a number line.

$$\begin{array}{r} 435 \\ + 298 \\ \hline \end{array}$$

3. Solve this problem using a paper-and-pencil method and a mental math strategy. Circle the strategy you think is the best choice for this problem. Explain your choice.

$$\begin{array}{r} 702 \\ + 258 \\ \hline \end{array}$$

4. Explain an estimation strategy that shows that your answer to Question 3 is reasonable.

5. Solve this problem using a different paper-and-pencil method than you used in Question 3.

$$\begin{array}{r} 277 \\ + 358 \\ \hline \end{array}$$

6. Solve these problems using paper-and-pencil methods.

$$\begin{array}{r} \text{A. } 403 \\ + 117 \\ \hline \end{array}$$

$$\begin{array}{r} \text{B. } 2498 \\ + 512 \\ \hline \end{array}$$

7. Choose one of the problems in Question 6 and show how it can be solved using mental math.

8. Ana solved this problem using the all-partials paper-and-pencil method. Explain Ana's step shown by the arrow.

$$\begin{array}{r} 769 \\ + 158 \\ \hline 17 \\ 110 \leftarrow \\ \hline 800 \\ \hline 927 \end{array}$$

9. Explain an estimation strategy that shows that Ana's answer to Question 8 is reasonable.

Place Value and Addition Quiz Feedback Box

	Expectation	Check In	Comments
Show partitions of numbers using base-ten shorthand. [Q#1]	E1		
Represent and solve an addition problem using base-ten pieces or a number line. [Q#2]	E2		
Solve addition problems using mental math. [Q#3, 7]	E4		
Add using paper-and-pencil methods. [Q#3, 5, 6, 8]	E6		
Choose appropriately from mental math and paper-and-pencil methods to add. [Q# 3, 5]	E9		
Estimate sums. [Q# 4, 9]	E11		