



Spring 2015

Focus Area– Topic F

Varied Problems Types Within 20

These 4 students were given the following directions:
Use any method you prefer to solve the problem below.

 $58 + 37 =$

This problem is correct because $58 + 37 = 95$. I know this because I see that my peer used the make ten strategies and decomposed 37. He added $58 + 2 = 60$. He now needs to add $60 + 35$. In order for him to do this he decomposed the 35. I know 6 tens + 3 tens = 9 tens or 90. $90 +$ the remaining 5 = 95

$$\begin{array}{r} 58 + 37 = \underline{95} \\ \quad \swarrow \searrow \\ \quad 2 \quad 35 \\ 58 + 2 = 60 \\ 60 + 35 = 95 \\ \quad \swarrow \searrow \\ \quad 30 \quad 5 \end{array}$$

This problem is correct because $58 + 37 = 95$. I know this

- $58 + 37 = 95$

 $88 + 7 = 95$

The figure shows two number lines. The first number line starts at 58 and has arrows pointing to 60, 70, 80, and 88, with a final arrow from 88 to 95. The second number line starts at 88 and has arrows pointing to 90 and 95.

T	11	
S	9	?


$11 - 9 = 2$

- Sonny collected
2 fewer baseball
cards than Tommy.*

$$\begin{array}{|c|c|c|} \hline & 9 & ? \\ \hline T & 9 & \\ \hline S & 9 & \\ \hline \end{array}$$

$$11 - 9 = \boxed{2}$$

- Tommy and Sonny collected 20 baseball cards.*




 $11 + 9 = \boxed{20}$

This problem is incorrect; it was solved using the Quick Ten Strategy. My peer lined up numbers to add tens with tens and ones with ones. Then he showed exactly how to add using just the numbers. When he added the ones

together he made a new ten but forgot to add it when he added his tens together. You can see that when he added just the numbers he forgot to add the ten there also. It is easier to remember to add the tens when you write it in the tens place. There should be a total of 9 tens not 8 tens.

$58 + 37 = 85$



58
+37
—
85

OBJECTIVE OF TOPIC F

- 1 Solve *compare bigger or smaller unknown* problem types.
- 2 Share and critique peer strategies for solving problems of various types.