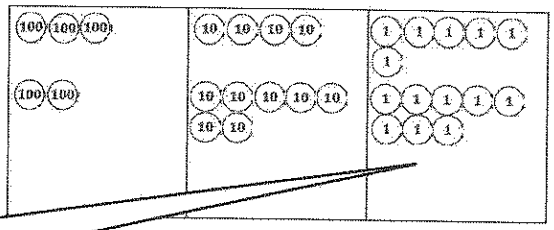
G2-M5-Lesson 9

1. Solve the following problems using your place value chart, place value disks, and vertical form. Bundle a ten or hundred when necessary.

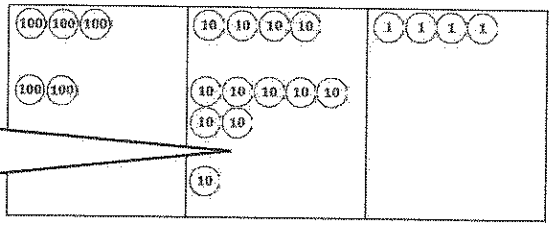
$346 + 278$

I show each step with the place value disks in the vertical form. When I make a new unit, I show it with new groups below.



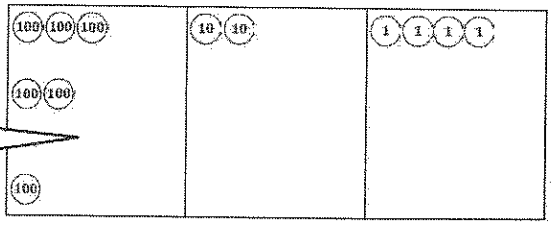
$$\begin{array}{r} 3\ 4\ 6 \\ +\ 2\ 7\ 8 \\ \hline \quad 1 \\ \hline \quad\quad 4 \end{array}$$

When I add the ones, I have 14 ones, or 1 ten 4 ones. I change 10 ones for 1 ten.



$$\begin{array}{r} 3\ 4\ 6 \\ +\ 2\ 7\ 8 \\ \hline 1\quad 1 \\ \hline \quad 2\ 4 \end{array}$$

Next, I add 4 tens plus 7 tens plus 1 more ten. That's 12 tens, or 1 hundred 2 tens. I change 10 tens for 1 hundred.



$$\begin{array}{r} 3\ 4\ 6 \\ +\ 2\ 7\ 8 \\ \hline 1\quad 1 \\ \hline 6\ 2\ 4 \end{array}$$

Now I have 6 hundreds 2 tens 4 ones. $346 + 278 = 624$

2. Solve.

a. $478 + 303 = \underline{781}$

$2 \quad 301$

478 is close to 480; it only needs 2 more. I can take 2 from 303 by breaking 303 into 2 and 301 to make an easier problem. $480 + 301 = 781$, so $478 + 303 = 781$.

b. $478 + 323 = \underline{801}$

Part (a) helps me solve this problem. 323 is just 20 more than 303, so the answer must be 20 more than 781. I count on 2 tens from 781. 781, 791, 801.