

G2-M4-Lesson 12

- Use place value disks to solve the problem.  
Rewrite the problem vertically, and record each step.

$$71 - 27$$

Three vertical subtraction problems are shown in a box. The first problem is  $71 - 27$  with a magnifying glass over the 71. The second problem is  $6 \text{ tens } 11 \text{ ones} - 2 \text{ tens } 7 \text{ ones}$  with a magnifying glass over the 11. The third problem is  $6 \text{ tens } 11 \text{ ones} - 2 \text{ tens } 7 \text{ ones} = 4 \text{ tens } 4 \text{ ones}$ .

I rewrite the problem in vertical form. Like a detective, I have to look carefully at the whole when subtracting, so I draw a magnifying glass around 71 to see if I need to do any unbundling.

What I do with the disks, I need to do in vertical form.

11 ones  $-$  7 ones = 4 ones.  
6 tens  $-$  2 tens = 4 tens.  
4 tens 4 ones is 44.

I show the whole, 71, with my place value disks. I don't show 27 because it's already inside 71. When I subtract the part I know, 27, I'll find the missing part.

Three diagrams show place value disks. The first diagram shows 7 tens disks and 1 one disk. The second diagram shows 6 tens disks and 11 one disks. The third diagram shows 6 tens disks and 4 one disks.

I can't subtract 7 ones from 1 one, so I need to decompose, or unbundle, a ten.

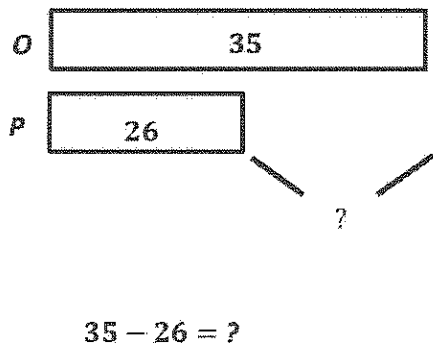
Now I have 6 tens 11 ones. I'm ready to subtract!

2. Some Grade 1 and Grade 2 students voted on their favorite fruit. The table shows the number of votes for each fruit.

Types of Fruit	Number of Votes
Pineapple	26
Mango	18
Apple	15
Orange	35
Peach	43

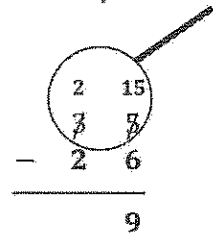
- a. How many more students voted for orange than pineapple? Show your work.

The tape diagram helps me see that I'm looking for the difference between 35 and 26. I can subtract using the vertical form to find the answer.



$$35 - 26 = ?$$

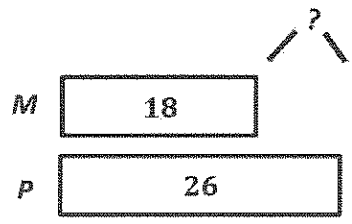
I can't take 6 ones from 5 ones, so I unbundle 1 ten. Now I have 2 tens 15 ones.  
15 ones - 6 ones = 9 ones.



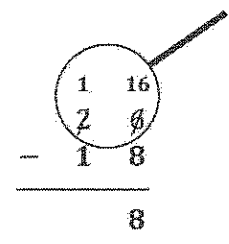
*9 more students voted for orange than for pineapple.*

- b. How many fewer students voted for mango than for pineapple? Show your work.

The tape diagram helps me see that I'm looking for the difference between 18 and 26.



$$26 - 18 = ?$$



*8 fewer students voted for mango than for pineapple.*