G2-M4-Lesson 12

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

$$71 - 27$$

> 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.

> 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.

> 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!

> 11 ones − 7 ones = 4 ones.
> 6 tens − 2 tens = 4 tens.
> 4 tens 4 ones is 44.

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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.

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.

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.
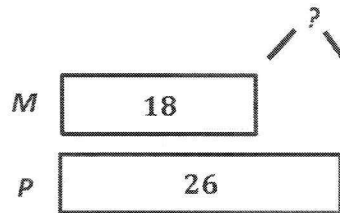
O [35]

P [26]   ?

$$35 - 26 = ?$$
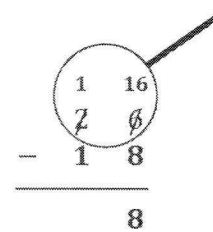
```
     2  15
     3  5
  -  2  6
  _____
        9
```
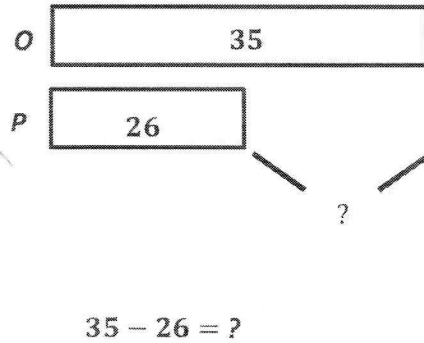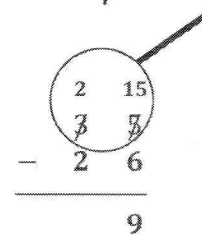
9 more students voted for orange than for pineapple.

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.

M [18]   ?

P [26]

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     1  16
     2  6
  -  1  8
  _____
        8
```

$$26 - 18 = ?$$

8 fewer students voted for mango than for pineapple.

Lesson 12:   Relate manipulative representations to a written method.   **EUREKA MATH**