G2-M4-Lesson 24

1. Solve using mental math. If you cannot solve mentally, use your place value chart and place value disks.

$47 - 7 =$ 40 $47 - 8 =$ 39 $147 - 47 =$ 100 $147 - 48 =$ 99

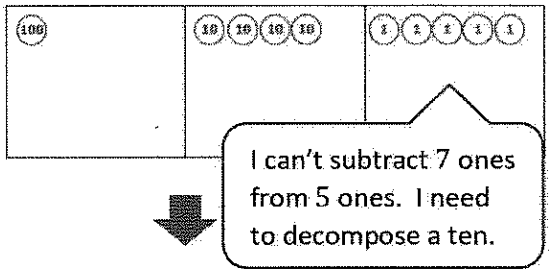
I can use $147 - 47$ to help me solve $147 - 48$. Since the difference in the first problem is 100, the difference in the second problem must be 1 less than 100 because I am only subtracting 1 more.

2. Solve using your place value chart and place value disks. Unbundle the hundred or ten when necessary. Circle what you did to model each problem.

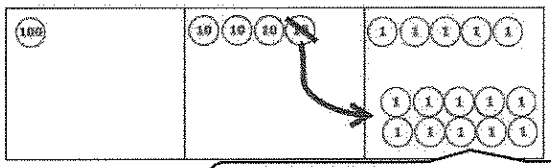
$145 - 87 =$ 58

I unbundled the hundred. (Yes) No

I unbundled a ten. (Yes) No

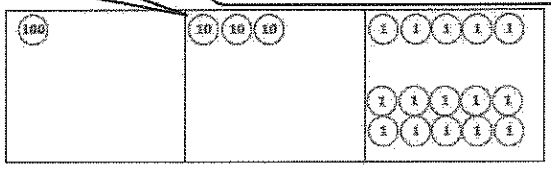


I can't subtract 7 ones from 5 ones. I need to decompose a ten.



I only have 3 tens. That's not enough to subtract 8 tens! I need to unbundle the hundred.

Now I have 15 ones. That's enough to subtract 7 ones.

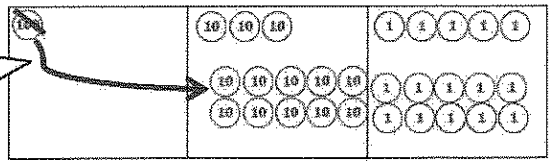


Now I have 13 tens and 15 ones. I am ready to subtract!

13 tens − 8 tens = 5 tens.

15 ones − 7 ones = 8 ones.

5 tens 8 ones is 58.



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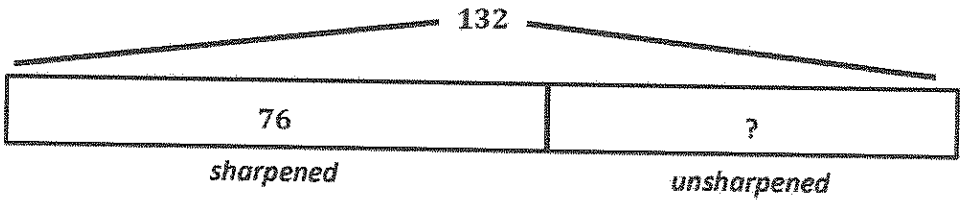
3. 76 pencils in the basket are sharpened. The basket has 132 pencils. How many pencils are not sharpened?



My tape diagram shows that 132 is the total. I know that one part is 76 sharpened pencils. I am solving for the number of pencils that are not sharpened. That's my unknown.

$132 - 76 = ?$

$76 \xrightarrow{+4} 80 \xrightarrow{+20} 100 \xrightarrow{+32} 132$

I can use the arrow way to find the missing part. I can start at 76 and add 4 to get to a friendly number, 80. Then, I can add 20 to get to 1 hundred. Then, 32 more is 132. So, $20 + 32 + 4 = 56$.

56 pencils are not sharpened.

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