

Name Master Key

Date _____

1. Complete each more or less statement.

a. 1 more than 37 is 38.b. 10 more than 37 is 47.c. 1 less than 37 is 36.d. 10 less than 37 is 27.e. 58 is 10 more than 48.f. 29 is 1 less than 30.g. 35 is 10 less than 45.h. 39 is 1 more than 38.i. 49 is 1 less than 50.j. 32 is 10 more than 22.

2. Complete each pattern and write the rule.

a. 44, 45, 46, 47, 48Rule: +1b. 44, 34, 24, 14, 4Rule: -10c. 44, 54, 64, 74, 84Rule: +10d. 44, 43, 42, 41, 40Rule: -1e. 64, 54, 44, 34, 24Rule: -10f. 41, 40, 39, 38, 37Rule: -1

3. Label each statement as true or false.

- a. 1 more than 36 is the same as 1 less than 38. True
- b. 10 less than 47 is the same as 1 more than 35. True
- c. 10 less than 89 is the same as 1 less than 90. False
- d. 10 more than 41 is the same as 1 less than 43. False

4. Below is a chart of balloons at the county fair.

Color of Balloons	Number of Balloons
Red	59
Yellow	61
Green	65
Blue	60
Pink	51

- a. Use the following to complete the chart and answer the question.
- The fair has 1 more blue than red balloons.
 - There are 10 fewer pink than yellow balloons.

Are there more blue or pink balloons?

Blue 60 is greater than 51

- b. If 1 red balloon pops and 10 red balloons fly away, how many red balloons are left? Use the arrow way to show your work.

$$59 \xrightarrow{-1} 58 \xrightarrow{-10} 48$$

48 are left

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1. Solve using place value strategies. Use scrap paper to show the arrow way or number bonds, or just use mental math and record your answers.

a. 2 tens + 3 tens = <u>5</u> tens 20 + 30 = <u>50</u>	b. 5 tens + 4 tens = <u>9</u> tens 50 + 40 = <u>90</u>
2 tens 4 ones + 3 tens = <u>5</u> tens <u>4</u> ones 24 + 30 = <u>54</u>	5 tens 9 ones + 4 tens = <u>9</u> tens <u>9</u> ones 59 + 40 = <u>99</u>

c. $28 + 40 = \underline{68}$

$18 + 30 = \underline{48}$

$60 + 38 = \underline{98}$

d. $30 + 25 = \underline{55}$

$35 + 50 = \underline{85}$

$15 + 20 = \underline{35}$

e. $37 + \underline{10} = 47$

$\underline{30} + 27 = 57$

$17 + \underline{70} = 87$

f. $\underline{40} + 22 = 62$

$29 + \underline{50} = 79$

$11 + \underline{80} = 91$

2. Find each sum. Then use $>$, $<$, or $=$ to compare.

a. $\begin{array}{r} 63 \\ \swarrow \downarrow \\ 23 + 40 \end{array} > \begin{array}{r} 53 \\ \swarrow \downarrow \\ 20 + 33 \end{array}$

d. $\begin{array}{r} 74 \\ \swarrow \downarrow \\ 64 + 10 \end{array} > \begin{array}{r} 69 \\ \swarrow \downarrow \\ 49 + 20 \end{array}$

b. $\begin{array}{r} 68 \\ \swarrow \downarrow \\ 50 + 18 \end{array} = \begin{array}{r} 68 \\ \swarrow \downarrow \\ 48 + 20 \end{array}$

e. $\begin{array}{r} 91 \\ \swarrow \downarrow \\ 70 + 21 \end{array} < \begin{array}{r} 98 \\ \swarrow \downarrow \\ 18 + 80 \end{array}$

c. $\begin{array}{r} 79 \\ \swarrow \downarrow \\ 19 + 60 \end{array} > \begin{array}{r} 69 \\ \swarrow \downarrow \\ 39 + 30 \end{array}$

f. $\begin{array}{r} 85 \\ \swarrow \downarrow \\ 35 + 50 \end{array} < \begin{array}{r} 86 \\ \swarrow \downarrow \\ 26 + 60 \end{array}$

3. Solve using place value strategies.

a. 6 tens - 2 tens = <u>4</u> tens $60 - 20 = \underline{40}$	b. 8 tens - 5 tens = <u>3</u> tens $80 - 50 = \underline{30}$
6 tens 3 ones - 3 tens = <u>3</u> tens <u>3</u> ones $63 - 30 = \underline{33}$	8 tens 9 ones - 5 tens = <u>3</u> tens <u>9</u> ones $89 - 50 = \underline{39}$

c. $55 - 20 = \underline{35}$ $75 - 30 = \underline{45}$ $85 - 50 = \underline{35}$

d. $72 - \underline{50} = 22$ $49 - \underline{30} = 19$ $88 - \underline{60} = 28$

e. $67 - \underline{20} = 47$ $71 - \underline{20} = 51$ $99 - \underline{30} = 69$

4. Complete each more than or less than statement.

a. 20 less than 58 is 38. b. 36 more than 40 is 76.

c. 40 less than 68 is 28. d. 50 more than 14 is 64.

5. There were 68 plates in the sink at the end of the day. There were 40 plates in the sink at the beginning of the day. How many plates were added throughout the day? Use the arrow way to show your simplifying strategy.

$$40 + \underline{\quad} = 68$$

$$40 \xrightarrow{+10} 50 \xrightarrow{+10} 60 \xrightarrow{+8} 68$$

$$10 + 10 + 8 = \textcircled{28}$$

28 plates were added

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1. Solve using the arrow way. The first set is done for you.

<p>a.</p> <p>$67 + 20 = \underline{87}$</p> <p>$67 \xrightarrow{+20} \underline{87}$</p> <p>$67 + 21 = \underline{88}$</p> <p>$67 \xrightarrow{+20} \underline{87} \xrightarrow{+1} \underline{88}$</p> <p>$67 + 19 = \underline{86}$</p> <p>$67 \xrightarrow{+20} \underline{87} \xrightarrow{-1} \underline{86}$</p>	<p>b.</p> <p>$56 + 40 = \underline{96}$</p> <p>$56 \xrightarrow{+40} \underline{96}$</p> <p>$56 + 41 = \underline{97}$</p> <p>$56 \xrightarrow{+40} \underline{96} \xrightarrow{+1} \underline{97}$</p> <p>$56 + 39 = \underline{95}$</p> <p>$56 \xrightarrow{+40} \underline{96} \xrightarrow{-1} \underline{95}$</p>
<p>c.</p> <p>$68 - 40 = \underline{28}$</p> <p>$68 \xrightarrow{-40} \underline{28}$</p> <p>$68 - 41 = \underline{27}$</p> <p>$68 \xrightarrow{-40} \underline{28} \xrightarrow{-1} \underline{27}$</p> <p>$68 - 39 = \underline{29}$</p> <p>$68 \xrightarrow{-40} \underline{28} \xrightarrow{+1} \underline{29}$</p>	<p>d.</p> <p>$87 - 50 = \underline{37}$</p> <p>$87 \xrightarrow{-50} \underline{37}$</p> <p>$87 - 51 = \underline{36}$</p> <p>$87 \xrightarrow{-50} \underline{37} \xrightarrow{-1} \underline{36}$</p> <p>$87 - 49 = \underline{38}$</p> <p>$87 \xrightarrow{-50} \underline{37} \xrightarrow{+1} \underline{38}$</p>

2. Solve using the arrow way, number bonds, or mental math. Use scrap paper if needed.

a. $48 - 20 = \underline{28}$ $48 - 21 = \underline{27}$ $48 - 19 = \underline{29}$	b. $86 - 50 = \underline{36}$ $86 - 51 = \underline{35}$ $86 - 49 = \underline{37}$	c. $37 + 40 = \underline{77}$ $37 + 41 = \underline{78}$ $37 + 39 = \underline{76}$
d. $62 + 30 = \underline{92}$ $62 + 31 = \underline{93}$ $62 + 29 = \underline{91}$	e. $77 - 40 = \underline{37}$ $77 - 41 = \underline{36}$ $77 - 39 = \underline{38}$	f. $28 + 50 = \underline{78}$ $28 + 51 = \underline{79}$ $28 + 49 = \underline{77}$

3. Marcy had \$84 in the bank. She took \$39 out of her account. How much does she have in her account now?

$$84 - 39 = \underline{45} \quad \text{she has } \$45.00$$

$$84 \xrightarrow{-40} 44 \xrightarrow{+1} 45$$

4. Brian has 92 cm of rope. He cuts off a piece 49 cm long to tie a package.

- a. How much rope does Brian have left?

$$92 - 49 = \underline{43} \quad 43 \text{ cm left}$$

$$92 \xrightarrow{-50} 42 \xrightarrow{+1} 43$$

- b. To tie a different package, Brian needs another piece of rope that is 8 cm shorter than the piece he just cut. Does he have enough rope left?

$$49 - 8 = \underline{41 \text{ cm}}$$

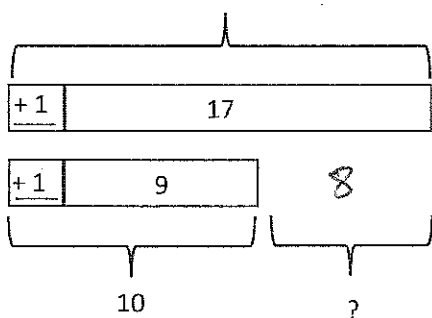
$$43 \underline{>} 41 \quad \text{so yes, he has enough rope}$$

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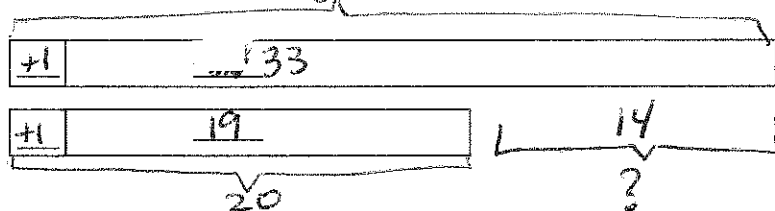
Date _____

1. Solve. Draw and label a tape diagram to subtract 10, 20, 30, 40, etc.

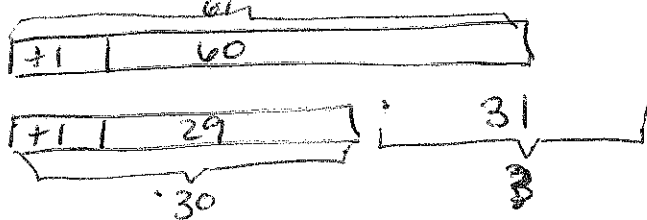
$$a. 17 - 9 = \frac{18 - 10}{18} = 8$$



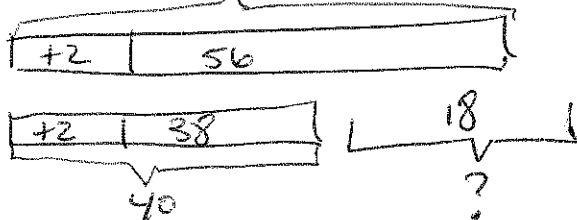
$$b. 33 - 19 = \frac{34 - 20}{34} = 14$$



$$c. 60 - 29 = \frac{61 - 30}{61} = 31$$



$$d. 56 - 38 = \frac{58 - 40}{58} = 18$$

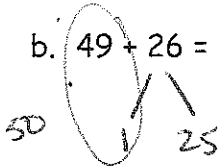


2. Solve. Draw a number bond to add 10, 20, 30, 40, etc.

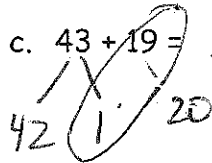
a. $28 + 43 = \underline{30 + 41} = \underline{71}$



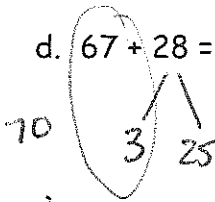
b. $49 + 26 = \underline{50 + 25} = \underline{75}$



c. $43 + 19 = \underline{42 + 20} = \underline{62}$

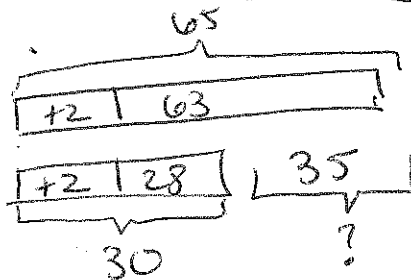


d. $67 + 28 = \underline{70 + 25} = \underline{95}$



3. Kylie has 28 more oranges than Cynthia. Kylie has 63 oranges. How many oranges does Cynthia have? Draw a tape diagram or number bond to solve.

$$63 - 28 = \underline{65 - 30} = \underline{35}$$



Cynthia has 35 oranges

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Solve and show your strategy.

1. 38 markers were in the bin. Chase added the 43 markers that were on the floor to the bin. How many markers are in the bin now?

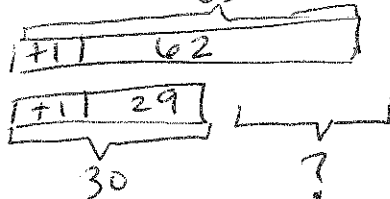
$$38 + 43 = \underline{81}$$

81 markers

$$38 \xrightarrow{+40} 78 \xrightarrow{+3} 81$$

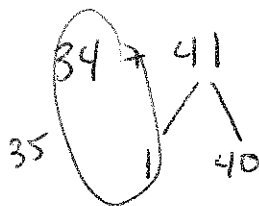
2. There are 29 fewer big stickers on the sticker sheet than little stickers. There are 62 little stickers on the sheet. How many big stickers are there?

$$62 - 29 = \underline{63 - 30} = 33$$



33 big stickers

3. Rose has 34 photos in a photo album and 41 photos in a box. How many photos does Rose have?



$$35 + 40 = 75$$

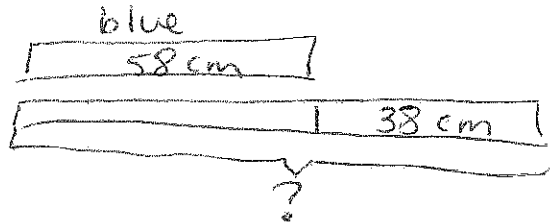
75 photos

4. Halle has two ribbons. The blue ribbon is 58 cm. The green ribbon is 38 cm longer than the blue ribbon.

a. How long is the green ribbon?

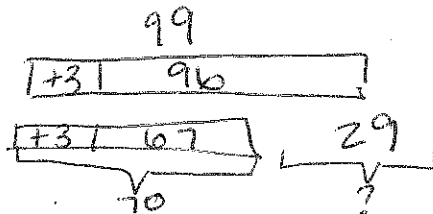
$$58 + 38 = 60 + 36 = 96$$

60
2 36
96 cm



b. Halle uses 67 cm of green ribbon to wrap a present. How much green ribbon is left?

$$96 \text{ cm} - 67 \text{ cm} = 99 - 70 = 29$$



5. Chad bought a shirt for \$19 and a pair of shoes for \$28 more than the shirt.

a. How much was the pair of shoes?

$$19 + 28 = 20 + 27 = \$47 \text{ for the shoes}$$

20 1 27

b. How much money did Chad spend on the shirt and shoes?

$$19 + 47 = 20 + 46 = \$66 \text{ total}$$

20 1 46

c. If Chad had \$13 left over, how much money did Chad have before buying the shirt and shoes?

Fact Family!

$$\begin{aligned} ? - 66 &= 13 \\ 66 + 13 &= \$79 \\ 66 &\xrightarrow{+10} 76 \xrightarrow{+3} 79 \end{aligned}$$

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1. Solve using mental math, if you can. Use your place value chart and place value disks to solve those you cannot do mentally.

a. $4 + 9 = \underline{13}$ $30 + 9 = \underline{39}$ $34 + 9 = \underline{43}$ $34 + 49 = \underline{83}$

b. $6 + 8 = \underline{14}$ $20 + 8 = \underline{28}$ $26 + 8 = \underline{34}$ $26 + 58 = \underline{84}$

2. Solve the following problems using your place value chart and place value disks. Compose a ten, if needed. Think about which ones you can solve mentally, too!

a. $21 + 9 = \underline{30}$ $22 + 9 = \underline{31}$

b. $28 + 2 = \underline{30}$ $28 + 4 = \underline{32}$

c. $32 + 16 = \underline{48}$ $34 + 17 = \underline{51}$

d. $47 + 23 = \underline{70}$ $47 + 25 = \underline{72}$

e. $53 + 35 = \underline{88}$ $58 + 35 = \underline{93}$

f. $58 + 42 = \underline{100}$ $58 + 45 = \underline{103}$

g. $69 + 32 = \underline{101}$ $36 + 62 = \underline{98}$

h. $77 + 13 = \underline{90}$ $16 + 77 = \underline{93}$

i. $59 + 34 = \underline{93}$ $31 + 58 = \underline{89}$

Solve using a place value chart.

3. Melissa has 36 more crayons than her brother. Her brother has 49 crayons. How many crayons does Melissa have?

$$49 + 36 = 85$$

$$49 \xrightarrow{+30} 79 \xrightarrow{+6} 85$$

4. There were 67 candles on Grandma's birthday cake and 26 left in the box. How many candles were there in all?

$$67 + 26 = 93$$

$$67 \xrightarrow{+20} 87 \xrightarrow{+6} 93$$

5. Frank's mother gave him \$25 to save. If he already had \$38 saved, how much money does Frank have saved now?

$$25 + 38 = 63$$

$$25 \xrightarrow{+30} 55 \xrightarrow{+8} 63$$

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1. Solve the following problems using the vertical form, your place value chart, and place value disks. Bundle a ten, if needed. Think about which ones you can solve mentally, too!

a. $31 + 9 = 40$

$32 + 8 = 40$

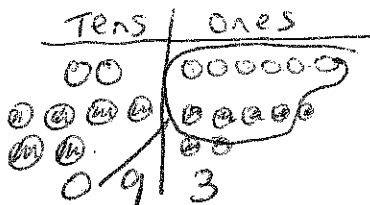
b. $42 + 18$

$$\begin{array}{r} 42 \\ + 18 \\ \hline 60 \end{array}$$

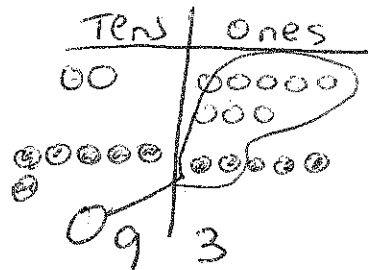
$43 + 17$

$$\begin{array}{r} 43 \\ + 17 \\ \hline 60 \end{array}$$

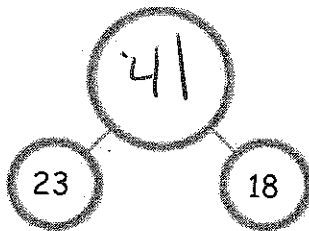
c. $26 + 67 = 93$



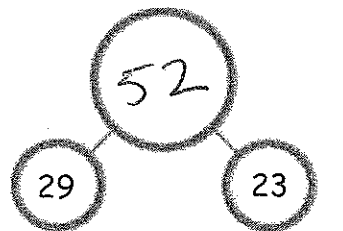
$28 + 65$



2. Add the bottom numbers to find the missing number above it.



$$\begin{array}{l} 20 + 10 = 30 \\ 3 + 8 = 11 \\ 30 + 11 = 41 \end{array}$$



$$\begin{array}{r} 29 \\ + 23 \\ \hline 52 \end{array}$$

3. Jahsir counted 63 flowers by the door and 28 flowers on the windowsill. How many flowers were by the door and on the windowsill?

$$\begin{array}{r} 63 \\ + 28 \\ \hline 91 \end{array}$$

91 flowers

4. Antonio's string is 38 centimeters longer than his reading book. The length of his reading book is 26 centimeters.

- a. What is the length of Antonio's string?

$$26 \text{ cm} + 38 \text{ cm} = 30 + 34 = 64 \text{ cm long}$$

30 4 34

- b. The length of Antonio's reading book is 20 centimeters shorter than the length of his desk. How long is Antonio's desk?

$$? - 20 = 26 \quad \text{Fact Family!}$$

$$26 + 20 = 46 \text{ cm.}$$

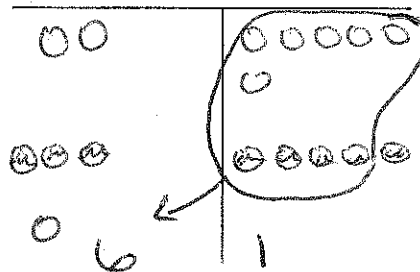
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1. Solve vertically. Draw and bundle place value disks on the place value chart.

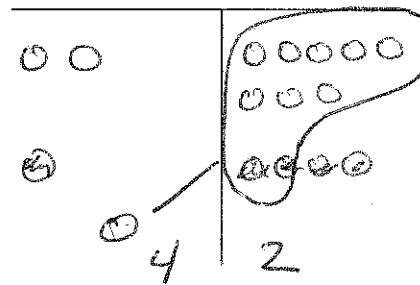
a. $26 + 35 = \underline{61}$

$$\begin{array}{r} 1 \\ 26 \\ + 35 \\ \hline 61 \end{array}$$



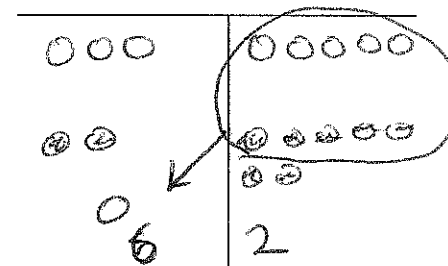
b. $28 + 14 = \underline{42}$

$$\begin{array}{r} 1 \\ 28 \\ + 14 \\ \hline 42 \end{array}$$



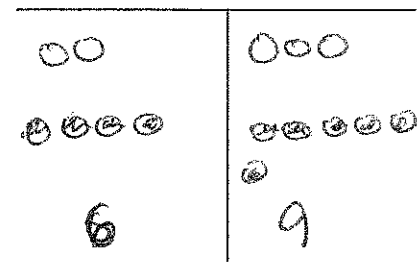
c. $35 + 27 = \underline{62}$

$$\begin{array}{r} 1 \\ 35 \\ + 27 \\ \hline 62 \end{array}$$



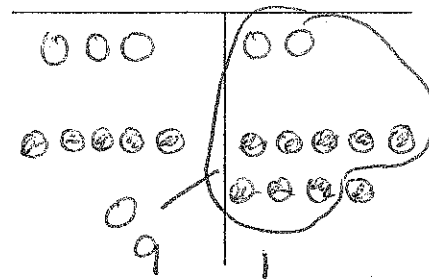
d. $23 + 46 = \underline{69}$

$$\begin{array}{r} 2 \\ 23 \\ + 46 \\ \hline 69 \end{array}$$



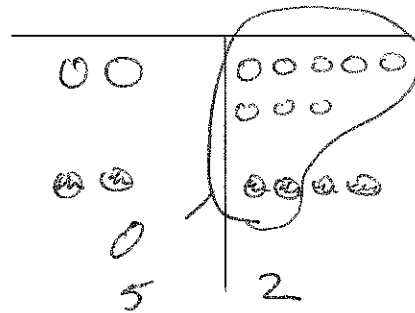
e. $32 + 59 = \underline{91}$

$$\begin{array}{r} & 1 & \\ & 3 & 2 \\ + & 5 & 9 \\ \hline 9 & 1 & \end{array}$$



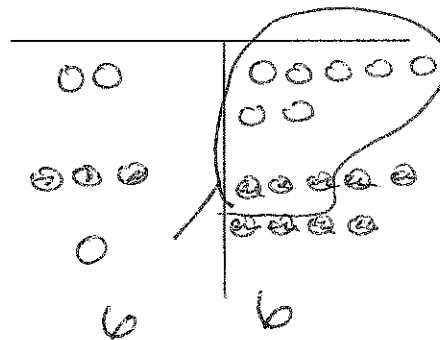
2. Twenty-eight second-grade students went on a field trip to the zoo. The other 24 second-grade students stayed at school. How many second grade students are there?

$$\begin{array}{r} & 1 & \\ & 2 & 8 \\ + & 2 & 4 \\ \hline 5 & 2 & \end{array}$$



3. Alice cut a 27 cm piece of ribbon and had 39 cm of ribbon left over. How much ribbon did Alice have at first?

$$\begin{array}{r} & 1 & \\ & 2 & 7 \\ + & 3 & 9 \\ \hline 6 & 6 & \end{array}$$



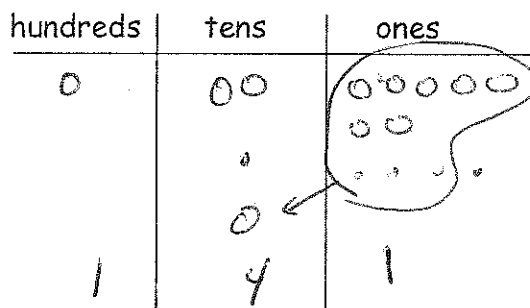
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1. Solve using the algorithm. Draw and bundle chips on the place value chart.

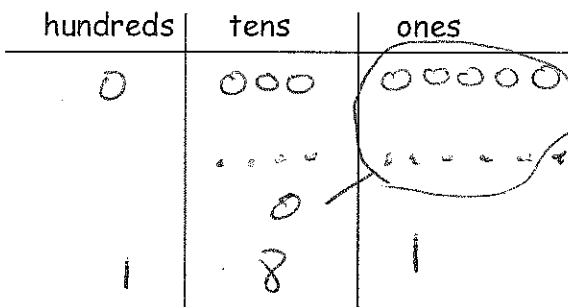
a. $127 + 14 = \underline{141}$

$$\begin{array}{r} 127 \\ + 14 \\ \hline 141 \end{array}$$



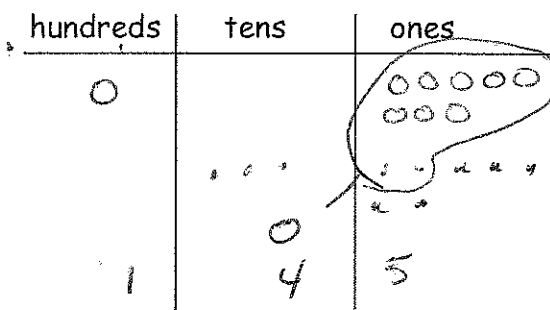
b. $135 + 46 = \underline{181}$

$$\begin{array}{r} 135 \\ + 46 \\ \hline 181 \end{array}$$



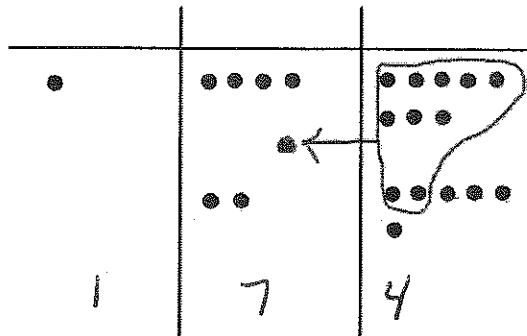
c. $108 + 37 = \underline{145}$

$$\begin{array}{r} 108 \\ + 37 \\ \hline 145 \end{array}$$



2. Solve using the algorithm. Write a number sentence for the problem modeled on the place value chart.

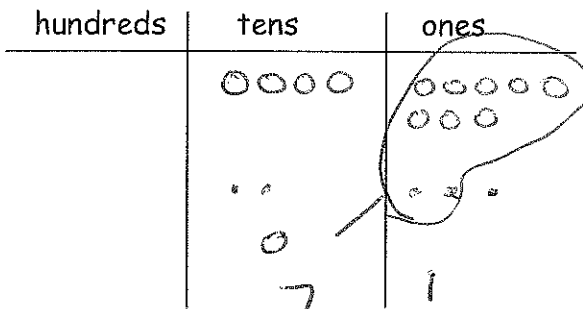
$$148 + 26 = 174$$



3. Jane made 48 lemon bars and 23 cookies.

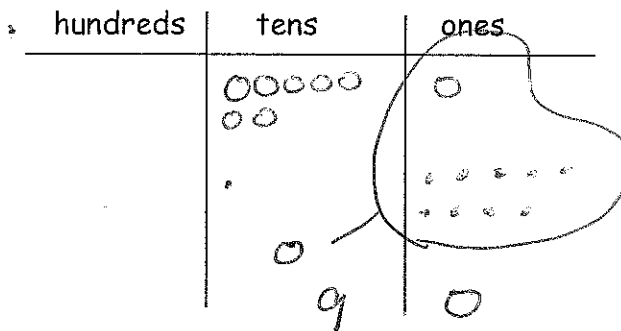
a. How many lemon bars and cookies did Jane make?

$$48 + 23 = 71$$



b. Jane made 19 more lemon bars. How many lemon bars does she have?

$$71 + 19 = 90$$



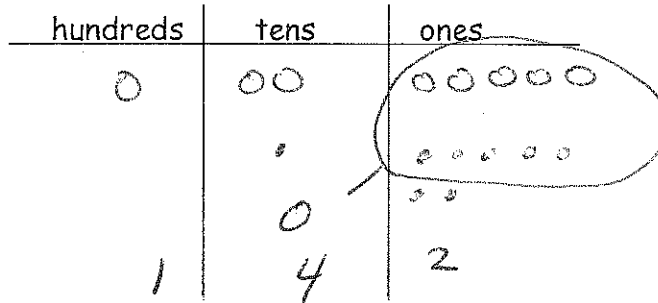
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1. Solve using the algorithm. Draw chips and bundle when you can.

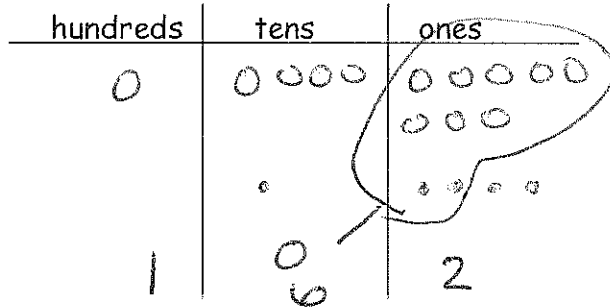
a. $125 + 17 = \underline{142}$

$$\begin{array}{r} 125 \\ + 17 \\ \hline 142 \end{array}$$



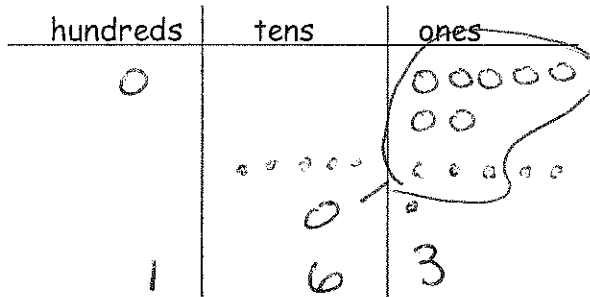
b. $148 + 14 = \underline{162}$

$$\begin{array}{r} 148 \\ + 14 \\ \hline 162 \end{array}$$



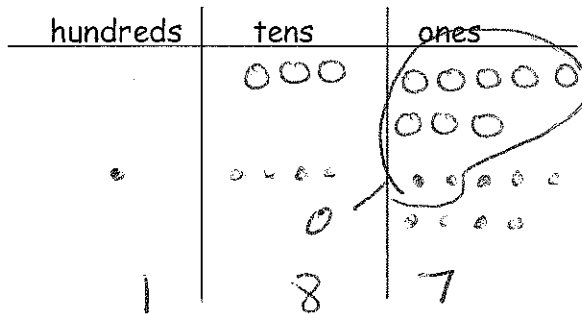
c. $107 + 56 = \underline{163}$

$$\begin{array}{r} 107 \\ + 56 \\ \hline 163 \end{array}$$




d. $38 + 149 = \underline{187}$

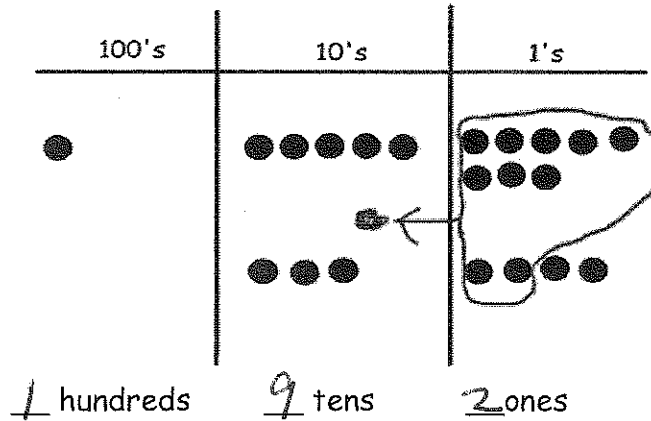
$$\begin{array}{r} 38 \\ + 149 \\ \hline 187 \end{array}$$



2. Jamie started to solve this problem when she accidentally dropped paint on her sheet. Can you figure out what problem she was given and her answer by looking at her work?

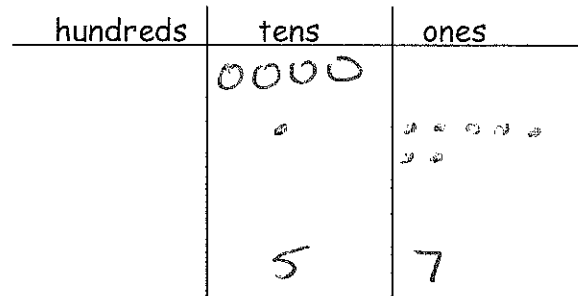
1  = 192

158 + 34 = 192



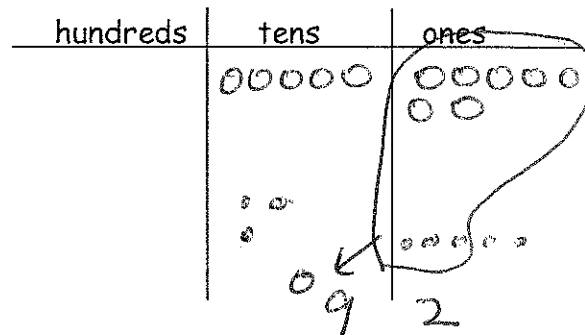
3. a. In the morning, Mateo borrowed 4 bundles of ten markers and 17 loose markers from the art teacher. How many markers did Mateo borrow?

57 markers



- b. In the afternoon, Mateo borrowed 2 bundles of ten crayons and 15 loose crayons. How many markers and crayons did Mateo borrow in all?

92 total



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1. Solve using mental math.

a. $6 - 5 = \underline{1}$ $26 - 5 = \underline{21}$ $26 - 6 = \underline{20}$ $26 - 7 = \underline{19}$

b. $8 - 7 = \underline{1}$ $58 - 7 = \underline{51}$ $58 - 8 = \underline{50}$ $58 - 9 = \underline{49}$

2. Solve using your place value chart and place value disks. Unbundle a ten, if needed. Think about which problems you can solve mentally, too!

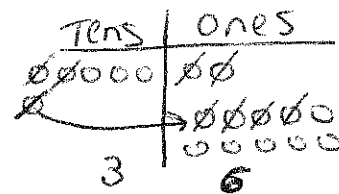
a. $36 - 5 = \underline{31}$ $36 - 7 = \underline{29}$

b. $37 - 6 = \underline{31}$ $37 - 8 = \underline{29}$

c. $40 - 5 = \underline{35}$ $41 - 5 = \underline{36}$

d. $58 - 32 = \underline{26}$ $58 - 29 = \underline{29}$

e. $60 - 26 = \underline{34}$ $62 - 26 = \underline{36}$

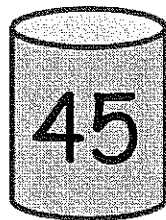


f. $70 - 41 = \underline{29}$ $80 - 41 = \underline{39}$

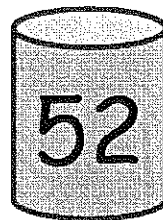
3. Solve, and explain your strategy.

<p>a.</p> <p>$41 - 27 = \underline{14}$</p>		<p>I had to unbundle a group of ten. then I could subtract 7 from 11 and then 20 from 30.</p>
<p>b.</p> <p>$67 - 28 = \underline{39}$</p>		<p>I unbundled a group of 10. Then I subtract 8 ones and 2 tens.</p>

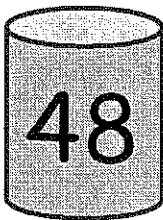
4. The number of marbles in each jar is marked on the front. Miss Clark took 37 marbles out of each jar. How many marbles are left in each jar? Complete the number sentence to find out.



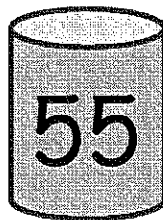
a. $\underline{45} - 37 = \underline{8}$



b. $\underline{52} - 37 = \underline{15}$



c. $\underline{48} - 37 = \underline{11}$



d. $\underline{55} - 37 = \underline{18}$

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

a. $34 - 18$

$$\begin{array}{r} \textcircled{2} \textcircled{14} \\ \textcircled{34} \\ - 18 \\ \hline 16 \end{array}$$

b. $41 - 16$

$$\begin{array}{r} 3 \cancel{4} \textcircled{11} \\ - 16 \\ \hline 25 \end{array}$$

c. $33 - 15$

$$\begin{array}{r} 2 \cancel{3} \textcircled{13} \\ - 15 \\ \hline 18 \end{array}$$

d. $46 - 18$

$$\begin{array}{r} 3 \cancel{4} \textcircled{16} \\ - 18 \\ \hline 28 \end{array}$$

e. $62 - 27$

$$\begin{array}{r} 5 \cancel{6} \textcircled{12} \\ - 27 \\ \hline 35 \end{array}$$

f. $81 - 34$

$$\begin{array}{r} 7 \cancel{8} \textcircled{11} \\ - 34 \\ \hline 47 \end{array}$$

2. Some first- and second-grade students voted on their favorite drink. The table shows the number of votes for each drink.

Types of Drink	Number of Votes
Milk	28
Apple Juice	19
Grape Juice	16
Fruit Punch	37
Orange Juice	44

- a. How many more students voted for fruit punch than for milk? Show your work.

$$37 - 28 = 9$$

$$\begin{array}{r} 28 \cancel{7} \overline{) 37} \\ - 28 \\ \hline 09 \end{array}$$

- b. How many more students voted for orange juice than for grape juice? Show your work.

$$\begin{array}{r} 34 \cancel{4} \overline{) 44} \\ - 16 \\ \hline 28 \end{array}$$

- c. How many fewer students voted for apple juice than for milk? Show your work.

$$\begin{array}{r} 12 \cancel{2} \overline{) 18} \\ - 19 \\ \hline 09 \end{array}$$

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1. Solve vertically. Use the place value chart and chips to model each problem. Show how you change 1 ten for 10 ones, when necessary. The first one has been started for you.

<p>a.</p> $42 - 26 = 16$ $\begin{array}{r} 34 \overset{12}{\cancel{2}} \\ - 26 \\ \hline 16 \end{array}$	
<p>b.</p> $54 - 28 = \underline{\quad}$ $\begin{array}{r} 45 \overset{14}{\cancel{4}} \\ - 28 \\ \hline 26 \end{array}$	
<p>c.</p> $60 - 17 = \underline{\quad}$ $\begin{array}{r} 50 \overset{10}{\cancel{0}} \\ - 17 \\ \hline 43 \end{array}$	

2. Solve vertically. Draw a place value chart and chips to model each problem. Show how you change 1 ten for 10 ones, when necessary.

<p>a. $31 - 19 = \underline{\quad}$</p>	<p>b. $47 - 24 = \underline{\quad}$</p>
<p>c. $51 - 39 = \underline{\quad}$</p>	<p>d. $67 - 44 = \underline{\quad}$</p>
<p>e. $76 - 54 = \underline{\quad}$</p>	<p>f. $82 - 59 = \underline{\quad}$</p>

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1. Solve by writing the problem vertically. Check your result by drawing chips on the place value chart. Change 1 ten for 10 ones, when needed.

a. $156 - 42 = \underline{114}$

$$\begin{array}{r} 156 \\ - 42 \\ \hline 114 \end{array}$$

hundreds	tens	ones
0	○○○○○	○○○○○
1	1	4

b. $150 - 36 = \underline{114}$

$$\begin{array}{r} 150 \\ - 36 \\ \hline 114 \end{array}$$

hundreds	tens	ones
0	○○○○○	○○○○○
1	1	4

c. $163 - 45 = \underline{118}$

$$\begin{array}{r} 163 \\ - 45 \\ \hline 118 \end{array}$$

hundreds	tens	ones
0	○○○○○	○○○
1	1	8

2. Solve the following problems without a place value chart.

<p>a.</p> $\begin{array}{r} 134 \\ - 29 \\ \hline 105 \end{array}$	<p>b.</p> $\begin{array}{r} 154 \\ - 37 \\ \hline 117 \end{array}$
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3. Solve and show your work. Draw a place value chart and chips, if needed.

a. Aniyah has 165 seashells. She has 28 more than Ralph. How many seashells does Ralph have?

$$\begin{array}{r} 165 \\ - 28 \\ \hline 137 \end{array}$$

Ralph has 137 shells

b. Aniyah and Ralph each give 19 seashells to Harold. How many seashells does Aniyah have left? How many seashells does Ralph have left?

Aniyah

$$\begin{array}{r} 165 \\ - 19 \\ \hline 146 \end{array}$$

Ralph

$$\begin{array}{r} 154 \\ - 19 \\ \hline 135 \end{array}$$

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1. Solve each problem using vertical form. Show the subtraction on the place value chart with chips. Exchange 1 ten for 10 ones, when necessary.

a. $153 - 31$

$$\begin{array}{r} 153 \\ - 31 \\ \hline 122 \end{array}$$

hundreds	tens	ones
0	0 0 0 0	0 0
1	2	2

b. $153 - 38$

$$\begin{array}{r} 153 \\ - 38 \\ \hline 115 \end{array}$$

hundreds	tens	ones
0	0 0 0 0	0 0 0
1	1	5

c. $160 - 37$

$$\begin{array}{r} 160 \\ - 37 \\ \hline 123 \end{array}$$

hundreds	tens	ones
0	0 0 0 0	0 0
1	2	3

d. $182 - 59$

$$\begin{array}{r} 182 \\ - 59 \\ \hline 123 \end{array}$$

hundreds	tens	ones
0	○○○○○ ○○○	○○
1	2	3

2. Lisa solved $166 - 48$ vertically and on her place value chart. Explain what Lisa did correctly and what she needs to fix.

$$\begin{array}{r} 516 \\ 166 \\ - 48 \\ \hline 108 \end{array}$$

100's	10's	1's
•	•••••	•••••
	↙	↘
	•••••	•••••

a. Lisa correctly unbundled the ten and subtracted the 8 ones from the 16.

b. Lisa needs to fix her subtraction of tens. 5 tens - 4 tens is 1 ten.