

MSP

Grade 2 Module 4

Lesson Refreshers

&

Homework Starters

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. false
- 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

- 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.

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

JMD

3. Solve using place value strategies.

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

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.

$$40 \xrightarrow{+28} 68$$

Name _____

Date _____

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>$56 \xrightarrow{+40} 96$</p> <p>$56 + 41 = \underline{97}$</p> <p>$56 \xrightarrow{+40} 96 \xrightarrow{+1} 97$</p> <p>$56 + 39 = \underline{\quad}$</p> <p>$56 \xrightarrow{+40} 96 \xrightarrow{-1} 95$</p>
<p>c.</p> <p>$68 - 40 = \underline{28}$</p> <p>$68 \xrightarrow{-40} 28$</p> <p>$68 - 41 = \underline{27}$</p> <p>$68 \xrightarrow{-40} 28 \xrightarrow{-1} 27$</p> <p>$68 - 39 = \underline{29}$</p> <p>$68 \xrightarrow{-40} 28 \xrightarrow{+1} 29$</p>	<p>d.</p> <p>$87 - 50 = \underline{37}$</p> <p>$87 \xrightarrow{-50} 37$</p> <p>$87 - 51 = \underline{36}$</p> <p>$87 \xrightarrow{-50} 37 \xrightarrow{-1} 36$</p> <p>$87 - 49 = \underline{\quad}$</p> <p>$87 \xrightarrow{-50} 37 \xrightarrow{+1} 38$</p>

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

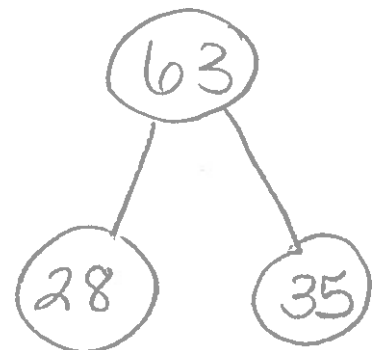
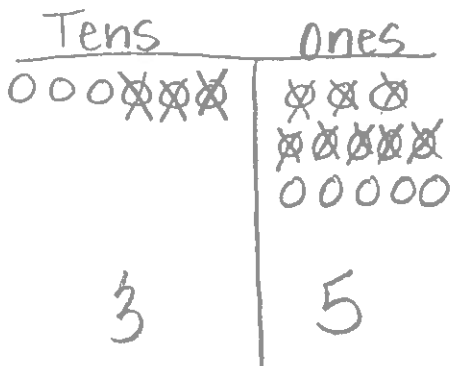
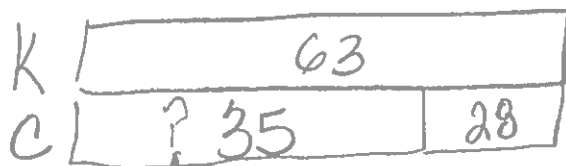
a. $28 + 43 = \underline{30 + 41} = \underline{71}$
 28 41
 1
 241

b. $49 + 26 = \underline{50 + 25} = \underline{75}$
 49 25
 1
 25

c. $43 + 19 = \underline{40 + 42} = \underline{62}$
 42 42
 1

d. $67 + 28 = \underline{30 + 65} = \underline{95}$
 65 28
 1
 65

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.



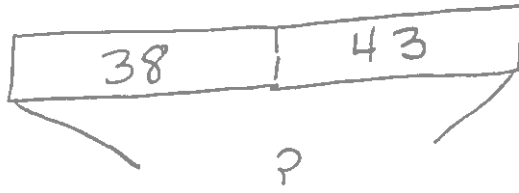
JMD

Name _____

Date _____

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?



$$38 + 43 = 81$$
$$38 \xrightarrow{+40} 78 \xrightarrow{+3} 81$$

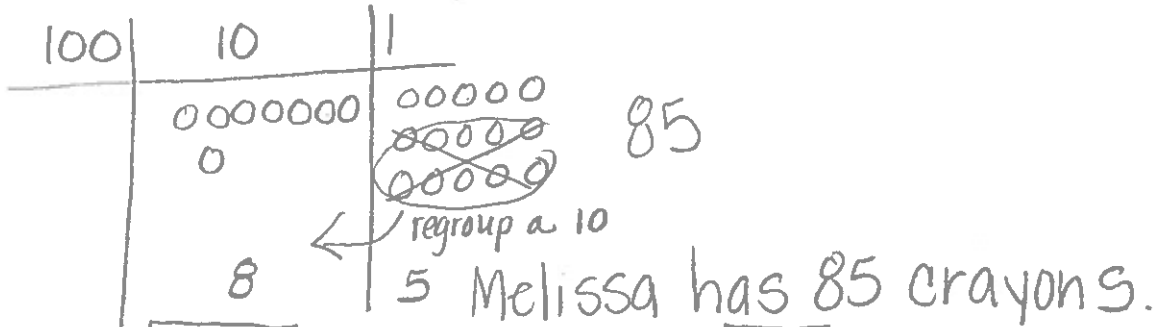
There are 81 markers in the bin.

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?

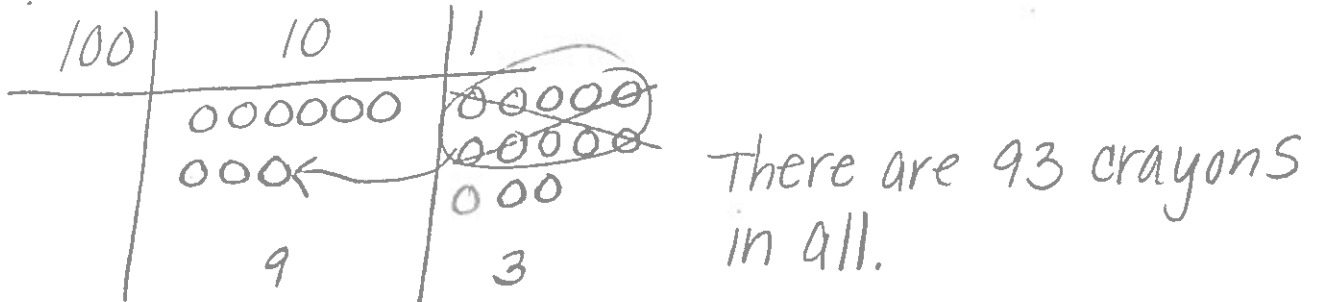
3. Rose has 34 photos in a photo album and 41 photos in a box. How many photos does Rose have?

Solve using a place value chart.

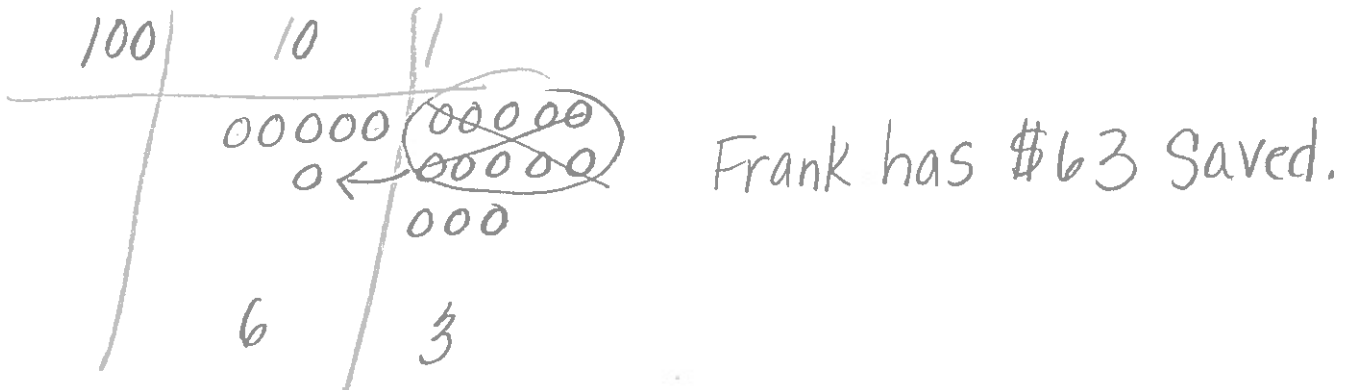
3. Melissa has 36 more crayons than her brother. Her brother has 49 crayons. How many crayons does Melissa have?



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



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



JMP

Name _____

Date _____

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. $31 + 9 = 40$

$$\begin{array}{r} 31 \\ + 9 \\ \hline 40 \end{array}$$

$32 + 8 = 40$

b. $42 + 18 = 60$

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

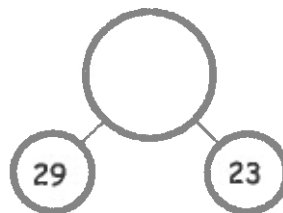
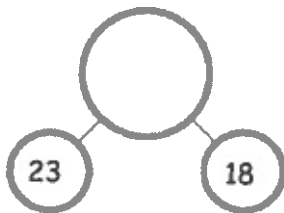
$43 + 17 = 60$

c. $26 + 67 = 93$

$$\begin{array}{r} 26 \\ + 67 \\ \hline 93 \end{array}$$

$28 + 65 = 93$

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



JMP

Name _____

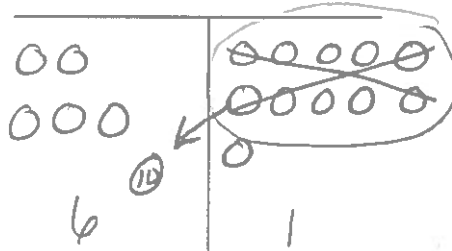
Date _____

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

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

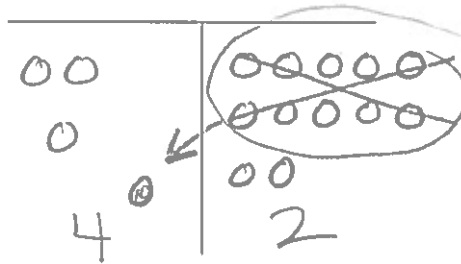
regroup

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



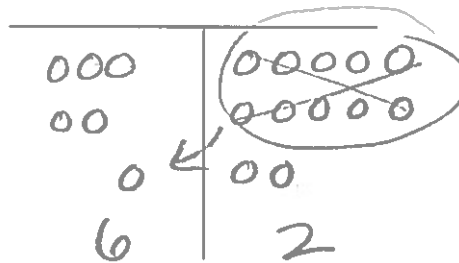
b. $28 + 14 = \underline{42}$

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



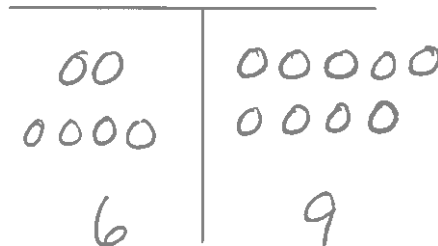
c. $35 + 27 = \underline{62}$

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



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

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



JMM

Name _____

Date _____

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

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

Regroup

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

hundreds	tens	ones
0	00	00000 00000
	0	0
1	4	1

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

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

hundreds	tens	ones
0	000	00000 00000
	00	0
1	8	1

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

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

hundreds	tens	ones
0	000	00000 00000
	0	0
1	4	5

JMD

Name _____

Date _____

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

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

hundreds	tens	ones
0	00	00000
	0	00000
	0	00
1	4	2

hundreds	tens	ones
0	0000	00000
	0	00000
	0	00
1	6	2

hundreds	tens	ones
0	0000	00000
	0	00000
	0	000
1	6	3

hundreds	tens	ones
0	0000	00000
	000	00000
	0	00000
	0	00
1	8	7

JMD

When subtracting using a place value chart, regroup a 10 into the ones place so you have enough to subtract.

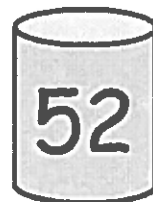
3. Solve, and explain your strategy.

a.	$41 - 27 = \underline{\quad}$
b.	$67 - 28 = \underline{\quad}$

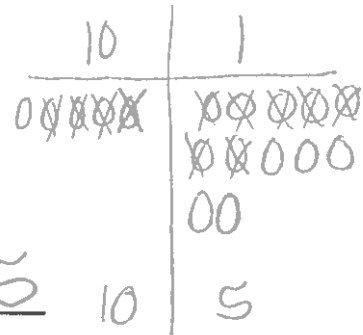
4. The number of marbles in each jar is marked on the front. Miss Clark took 37 marbles out of each jar. How many marbles are left in each jar? Complete the number sentence to find out.



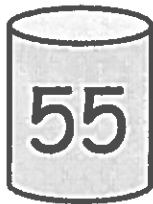
a. $45 - 37 = 8$



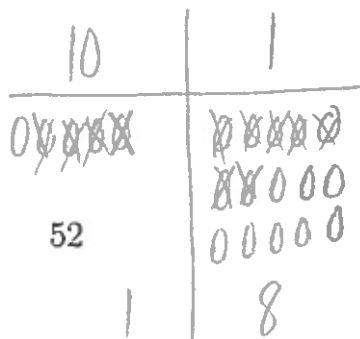
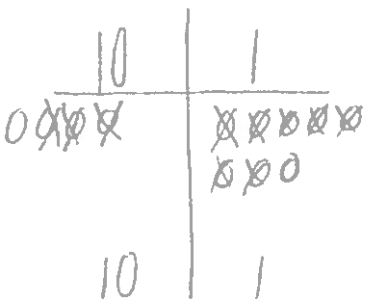
b. $52 - 37 = 15$



c. $48 - 37 = 11$



d. $55 - 37 = 18$



JMD

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

Think:
Subtraction

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

$$\begin{array}{r} 24\cancel{17} \\ - 28 \\ \hline 9 \end{array}$$

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

$$\begin{array}{r} 34\cancel{14} \\ - 16 \\ \hline 28 \end{array}$$

Think:
Subtraction

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

$$\begin{array}{r} 118 \\ - 28 \\ \hline 9 \end{array}$$

★ When setting up a subtraction problem, put the larger number on top

AMU

Name _____ Date _____

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> $42 - 26 = \underline{16}$ $\begin{array}{r} 3 \overset{12}{4} 2 \\ - 26 \\ \hline 16 \end{array}$	
<p>b.</p> $54 - 28 = \underline{26}$ $\begin{array}{r} 4 \overset{14}{5} 4 \\ - 28 \\ \hline 26 \end{array}$	
<p>c.</p> $60 - 17 = \underline{43}$ $\begin{array}{r} 5 \overset{10}{6} 0 \\ - 17 \\ \hline 43 \end{array}$	

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

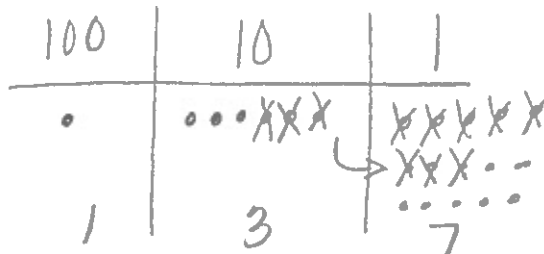
<p>a.</p> $\begin{array}{r} 134 \\ - 29 \\ \hline \end{array}$	<p>b.</p> $\begin{array}{r} 154 \\ - 37 \\ \hline \end{array}$
--	--

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?

$$\begin{array}{r} 5\ 15 \\ 165 \\ - 28 \\ \hline \end{array}$$

Ralph has 137 seashells



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

$$\begin{array}{r} 5\ 15 \\ 165 \\ - 19 \\ \hline \end{array}$$

Aniyah 146 left.
has

$$\begin{array}{r} 2\ 17 \\ 137 \\ - 19 \\ \hline \end{array}$$

Ralph has 118 left

JMD

d. $182 - 59$

hundreds	tens	ones

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

$$\begin{array}{r}
 5\cancel{1}6 \\
 1\cancel{6}\cancel{6} \\
 - 48 \\
 \hline
 108
 \end{array}$$

100's	10's	1's
•	X X X X •	X X X X •
	↙	X X • •
1	1	8

a. Lisa correctly borrowed a ten and regrouped the ones.

b. Lisa needs to fix the subtraction of 5 tens - 4 tens.

JMD

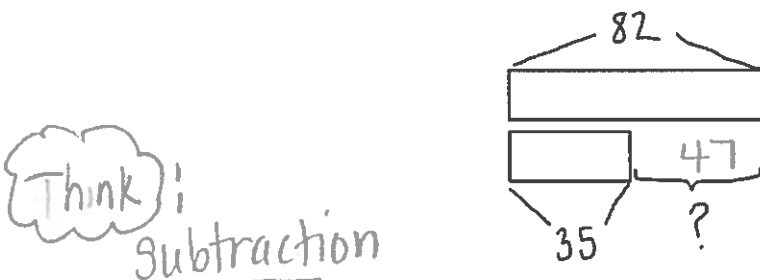
Name _____ Date _____

Read
Draw
Write

Solve the following word problems. Use the RDW process.

1. Vicki modeled the following problem with a tape diagram.

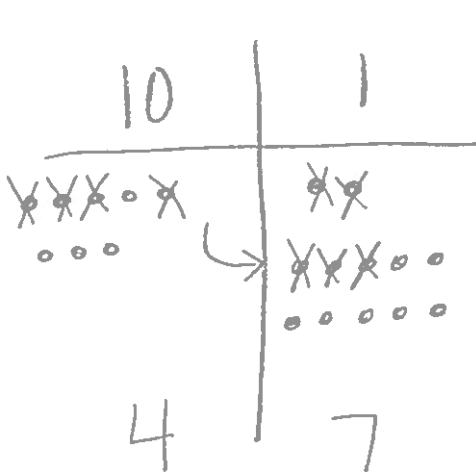
Eighty-two students are in the math club. 35 students are in the science club.



How many more students are in the math club than science club?

$$\begin{array}{r} 712 \\ 82 \\ - 35 \\ \hline 47 \end{array}$$

Show another model to solve the problem. Write your answer in a sentence.



There are 47 more students in Math club than science club

JMD

2. Solve.

a. 6 ones + 5 ones = ____ ten ____ one

$6 + 5 =$ _____

6 tens + 5 tens = ____ hundred ____ ten

$60 + 50 =$ _____

b. 5 ones + 7 ones = ____ ten ____ ones

$5 + 7 =$ _____

5 tens + 7 tens = ____ hundred ____ tens

$50 + 70 =$ _____

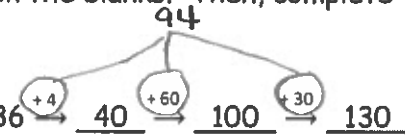
a. 9 ones + 8 ones = ____ ten ____ ones

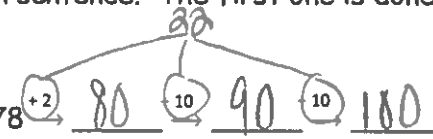
$9 + 8 =$ _____

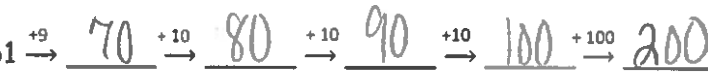
9 tens + 8 tens = ____ hundred ____ tens

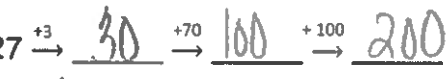
$90 + 80 =$ _____

3. Fill in the blanks. Then, complete the addition sentence. The first one is done for you.

a. 
 $36 + \underline{94} = \underline{130}$

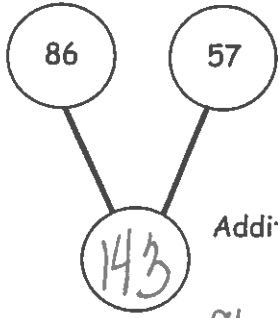
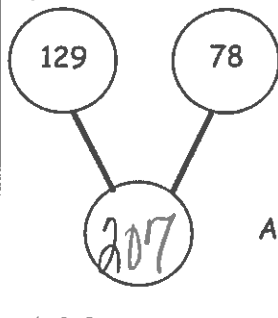
b. 
 $78 + \underline{22} = \underline{100}$

c. 
 $61 + \underline{139} = \underline{200}$

d. 
 $27 + \underline{173} = \underline{200}$

JMD

3. Solve the problem using your place value disks, and fill in the missing total. Then, write an addition sentence that relates to the number bonds.

<p>a.</p>  <p style="margin-left: 100px;">Addition Sentence:</p> <p style="margin-left: 100px;"><u>$86 + 57 = 143$</u></p> <div style="margin-left: 20px;"> $\begin{array}{r} 86 \\ + 57 \\ \hline 143 \end{array}$ </div>	<p>b.</p>  <p style="margin-left: 100px;">Addition Sentence:</p> <p style="margin-left: 100px;"><u>$129 + 78 = 207$</u></p> <div style="margin-left: 20px;"> $\begin{array}{r} 129 \\ + 78 \\ \hline 207 \end{array}$ </div>
---	--

4. Solve using your place value chart and place value disks.

a. $45 + 55 = \underline{\hspace{2cm}}$

b. $78 + 33 = \underline{\hspace{2cm}}$

c. $37 + 84 = \underline{\hspace{2cm}}$

JMD

g. $162 + 38$	h. $156 + 44$
---------------	---------------

2. Seventy-four trees were planted in the garden. Forty-nine more bushes were planted than trees in the garden.

a. How many bushes were planted?

$$\begin{array}{r} 74 \\ + 49 \\ \hline 123 \end{array}$$

123 bushes were planted.

b. How many trees and bushes were planted?

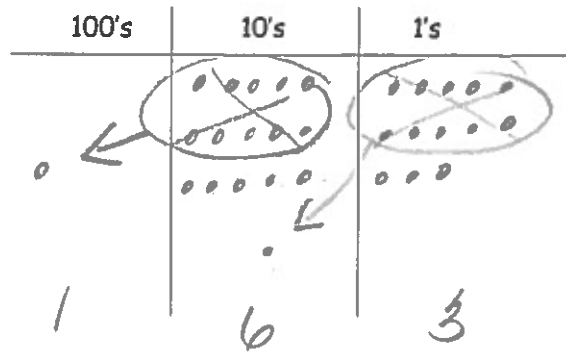
$$\begin{array}{r} 123 - \text{bushes} \\ + 74 - \text{trees} \\ \hline 197 \end{array}$$

197 trees and bushes were planted.

JMD

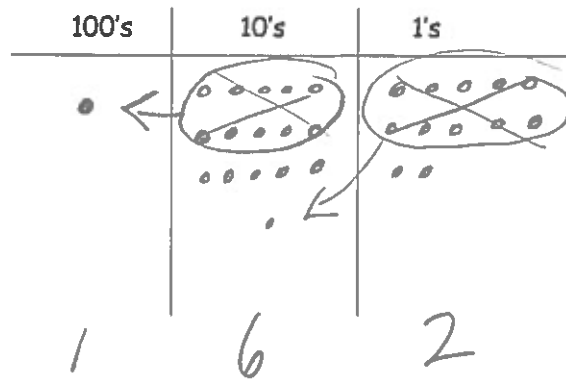
d. $84 + 79 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 84 \\ + 79 \\ \hline 163 \end{array}$$



e. $65 + 97 = \underline{162}$

$$\begin{array}{r} 65 \\ + 97 \\ \hline 162 \end{array}$$



2. For each box, find and circle two numbers that add up to 150.

<p>a.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 5px;">67</td> <td>63</td> </tr> <tr> <td>73</td> <td style="border: 1px solid black; border-radius: 50%; padding: 5px;">83</td> </tr> <tr> <td colspan="2" style="padding-top: 10px;">57</td> </tr> </table>	67	63	73	83	57		<p>b.</p> <table style="width: 100%; text-align: center;"> <tr> <td>48</td> <td style="border: 1px solid black; border-radius: 50%; padding: 5px;">92</td> </tr> <tr> <td>68</td> <td>62</td> </tr> <tr> <td colspan="2" style="padding-top: 10px;">58</td> </tr> </table>	48	92	68	62	58		<p>c.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 5px;">75</td> <td>55</td> </tr> <tr> <td>65</td> <td>45</td> </tr> <tr> <td colspan="2" style="padding-top: 10px;">75</td> </tr> </table>	75	55	65	45	75	
67	63																			
73	83																			
57																				
48	92																			
68	62																			
58																				
75	55																			
65	45																			
75																				

Handwritten signature

d. $127 + 78 =$ _____

100's	10's	1's

2. The blue team scored 37 fewer points than the white team. The blue team scored 69 points.

a. How many points did the white team score?

$$\begin{array}{r} 69 \\ + 37 \\ \hline 106 \end{array}$$

The blue team scored 69 points.
The white team scored 106 points

b. How many points did the blue and white teams score altogether? *add*

$$\begin{array}{r} 106 \\ + 69 \\ \hline 175 \end{array}$$

They scored 175 points
altogether.

JMD

2. The table shows the top six soccer teams and their total points scored this season.

Teams	Points
Red	29
Yellow	38
Green	41
Blue	76
Orange	52
Black	24

a. How many points did the yellow and orange teams score together?

$$\begin{array}{r} 38 \\ + 52 \\ \hline 90 \end{array}$$

b. How many points did the yellow, orange, and blue teams score together?

$$\begin{array}{r} 90 \\ + 76 \\ \hline 166 \end{array}$$

c. How many points did the red, green, and black teams score together?

$$29 + 41 + 24$$

$$\begin{array}{r} 70 + 24 = 94 \end{array}$$

d. Which two teams scored a total of 70 points?

red and green

$$29 + 41 = 70$$

e. Which two teams scored a total of 100 points?




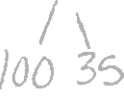
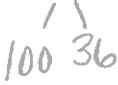
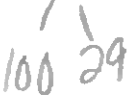
blue and black

$$\begin{array}{r} 76 \\ + 24 \\ \hline 100 \end{array}$$

JMD

Name _____ Date _____

1. Solve using number bonds to subtract from 100. The first one has been done for you.

<p>a. $105 - 90 = 15$</p>  <p>100 5</p> <p>$100 - 90 = 10$</p> <p>$10 + 5 = 15$</p>	<p>b. $121 - 90$</p>  <p>$100 - 90 = 10$</p> <p>$10 + 21 = 31$</p>
<p>c. $112 - 80$</p>  <p>$100 - 80 = 20$</p> <p>$20 + 12 = 32$</p>	<p>d. $135 - 70$</p>  <p>$100 - 70 = 30$</p> <p>$30 + 35 = 65$</p>
<p>e. $136 - 60$</p>  <p>$100 - 60 = 40$</p> <p>$40 + 36 = 76$</p>	<p>f. $129 - 50$</p>  <p>$100 - 50 = 50$</p> <p>$50 + 29 = 79$</p>

Handwritten signature

Name _____ Date _____

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

a. $38 - 8 =$ _____ $38 - 9 =$ _____ $138 - 38 =$ _____ $138 - 39 =$ _____

b. $130 - 20 =$ _____ $130 - 30 =$ _____ $130 - 40 =$ _____

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.

<p>a. $115 - 50 =$ <u>65</u> $\begin{array}{r} 011 \\ 115 \\ - 50 \\ \hline 65 \end{array}$</p> <p>I unbundled the hundred. <input checked="" type="radio"/> Yes <input type="radio"/> No I unbundled a ten. <input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>b. $125 - 57 =$ <u>68</u> $\begin{array}{r} 01115 \\ 125 \\ - 57 \\ \hline 68 \end{array}$</p> <p>I unbundled the hundred. <input checked="" type="radio"/> Yes <input type="radio"/> No I unbundled a ten. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>
<p>c. $88 - 39 =$ <u>49</u> $\begin{array}{r} 718 \\ 88 \\ - 39 \\ \hline 49 \end{array}$</p> <p>I unbundled the hundred. <input type="radio"/> Yes <input checked="" type="radio"/> No I unbundled a ten. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>d. $186 - 39 =$ <u>147</u> $\begin{array}{r} 716 \\ 186 \\ - 39 \\ \hline 147 \end{array}$</p> <p>I unbundled the hundred. <input type="radio"/> Yes <input checked="" type="radio"/> No I unbundled a ten. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>
<p>e. $162 - 85 =$ <u>77</u> $\begin{array}{r} 01512 \\ 162 \\ - 85 \\ \hline 77 \end{array}$</p> <p>I unbundled the hundred. <input checked="" type="radio"/> Yes <input type="radio"/> No I unbundled a ten. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>f. $172 - 76 =$ <u>96</u> $\begin{array}{r} 01612 \\ 172 \\ - 76 \\ \hline 96 \end{array}$</p> <p>I unbundled the hundred. <input checked="" type="radio"/> Yes <input type="radio"/> No I unbundled a ten. <input checked="" type="radio"/> Yes <input type="radio"/> No</p>

Handwritten signature

2. Dominic has \$167. He has \$88 more than Mario. How much money does Mario have?

3. Which problem will have the same answer as $133 - 77$? Show your work.

- a. $155 - 66$ NO
- b. $144 - 88$ YES
- c. $177 - 33$ NO
- d. $139 - 97$ NO

$$\begin{array}{r} 0 \ 12 \ 13 \\ \times 33 \\ - 77 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 14 \ 15 \\ a. \ 955 \\ - 66 \\ \hline 89 \end{array}$$

$$\begin{array}{r} 13 \ 14 \\ b. \ 0144 \\ - 88 \\ \hline 56 \end{array}$$

$$\begin{array}{r} c. \ 177 \\ - 33 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 0 \ 13 \\ d. \ 139 \\ - 97 \\ \hline 42 \end{array}$$

Handwritten signature

d. $136 - 77 =$ _____

hundreds	tens	ones

e. $154 - 96 =$ _____

hundreds	tens	ones

2. **Extension:** Fill in the missing number to complete the problem. Draw a place value chart and chips to model.

$ \begin{array}{r} 123 \\ -5\boxed{4} \\ \hline 69 \end{array} $	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; border-right: 1px solid black;">100</td> <td style="width: 33%; text-align: center; border-right: 1px solid black;">10</td> <td style="width: 33%; text-align: center;">1</td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center; vertical-align: middle;"> X ↘ </td> <td style="border-right: 1px solid black; text-align: center; vertical-align: middle;"> XX XXXX 6 </td> <td style="text-align: center; vertical-align: middle;"> 0XXX </td> </tr> </table>	100	10	1	X ↘	XX XXXX 6 0XXX
100	10	1					
X ↘	XX XXXX 6 0XXX					

JMD

d. $200 - 57 =$ _____

hundreds	tens	ones

e. $200 - 83 =$ _____

hundreds	tens	ones

2. Susan solved $200 - 91$ and decided to add her answer to 91 to check her work. Explain why this strategy works.

Susan's work:	Explanation:
$\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - 91 \\ \hline 109 \end{array}$ $\begin{array}{r} 109 \\ + 91 \\ \hline 200 \end{array}$	<p>This strategy works because adding and subtracting are opposite operations.</p>

200	
91	?

109

Chris

d. $200 - 107 =$ _____

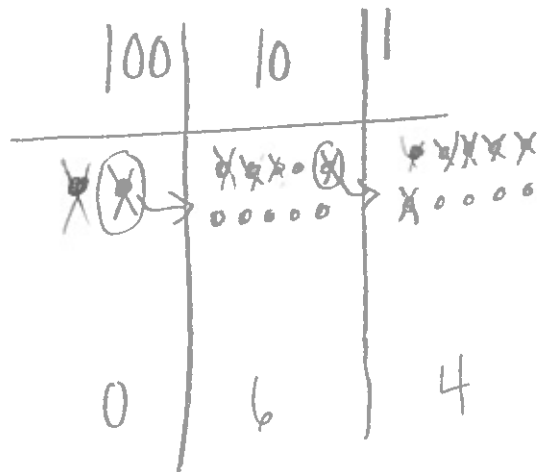
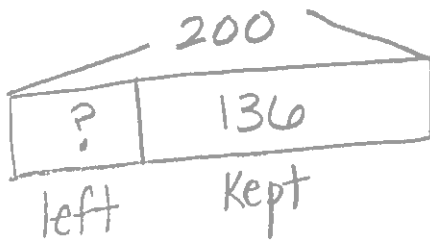
hundreds	tens	ones

e. $200 - 143 =$ _____

hundreds	tens	ones

2. Herman collected 200 shells on the beach. Of those, he kept 136 shells and left the rest on the beach. How many shells did he leave on the beach?

$$\begin{array}{r}
 100 \\
 - 136 \\
 \hline
 64
 \end{array}$$



JMD

Name _____

Date _____

1. Add like units and record the totals below.

<p>a.</p> $ \begin{array}{r} 48 \\ + 27 \\ \hline 15 \text{ (8+7)} \\ \hline 60 \text{ (40+20)} \\ \hline \boxed{75} \end{array} $	<p>b.</p> $ \begin{array}{r} 118 \\ + 73 \\ \hline 11 \text{ (8+3)} \\ \hline 80 \text{ (70+10)} \\ \hline 100 \text{ (100+0)} \\ \hline \boxed{191} \end{array} $
<p>c.</p> $ \begin{array}{r} 156 \\ + 62 \\ \hline 8 \text{ (6+2)} \\ \hline 110 \text{ (50+60)} \\ \hline 100 \text{ (100+0)} \\ \hline \boxed{218} \end{array} $	<p>d.</p> $ \begin{array}{r} 137 \\ + 82 \\ \hline 9 \text{ (7+2)} \\ \hline 110 \text{ (30+80)} \\ \hline 100 \text{ (100+0)} \\ \hline \boxed{219} \end{array} $

Handwritten signature

2. Here is one way to solve $145 + 67$. For (a), solve $145 + 67$ another way.

$\begin{array}{r} 145 \\ + 67 \\ \hline 212 \end{array}$	<p>a.</p> $\begin{array}{r} 145 \\ + 67 \\ \hline 12 \text{ (5+7)} \\ 100 \text{ (40+60)} \\ + 100 \text{ (100+0)} \\ \hline 212 \end{array}$
--	---

b. Explain how the two ways to solve $145 + 67$ are similar.

Both ways add 5 ones and 7 ones to get 1 ten
and 2 ones. They add 4 tens and 6 tens
to get 10 tens. They add 1 hundred to
zero hundreds to get 1 hundred.

JMD

3. Show another way to solve $142 + 39$.

$\begin{array}{r} 142 \\ + 39 \\ \hline 11 \\ 70 \\ 100 \\ \hline 181 \end{array}$	
--	--

Name _____

Date _____

1. Melissa had 56 pens and 37 more pencils than pens.
 a. How many pencils did Melissa have?

$$\begin{array}{r} 56 \\ + 37 \\ \hline 93 \end{array}$$



- b. How many pens and pencils did Melissa have?

$$\begin{array}{r} 56 - \text{pens} \\ + 93 - \text{pencils} \\ \hline 149 \end{array}$$

2. Antonio gave 27 tomatoes to his neighbor and 15 to his brother. He had 72 tomatoes before giving some away. How many tomatoes does Antonio have left?

$$\begin{array}{r} 27 \\ + 15 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 72 \\ - 42 \\ \hline 30 \end{array}$$

↑
Subtraction

↑
add to figure out how many tomatoes were given in total.

JMD