

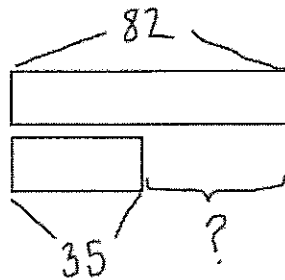
Name \_\_\_\_\_

Date \_\_\_\_\_

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.



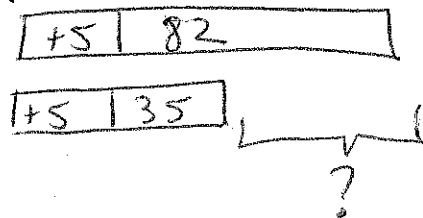
How many more students are in the math club than science club?

$$\begin{array}{r} 78 \\ - 35 \\ \hline 43 \end{array}$$

47 more students

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

$$82 - 35 = 47 \text{ more students}$$



2. Forty-six birds sat on a wire. Some flew away, but 29 stayed. How many birds flew away? Show your work.

46

29	?

$$\begin{array}{r} 34 \cancel{6} \\ - 29 \\ \hline 17 \end{array}$$

17 birds flew away.

3. Ian bought a pack of 47 water balloons. 19 were red, 16 were yellow, and the rest were blue. How many water balloons were blue? Show your work.

47

19	16	?

$$\begin{array}{r} 34 \cancel{7} \\ - 19 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 28 \\ - 16 \\ \hline 12 \end{array}$$

12 were blue

4. Daniel read 54 pages of his book in the morning. He read 27 fewer pages in the afternoon. How many pages did Daniel read altogether? Show your work.

?

54	54-27
54	27

$$\begin{array}{r} 45 \cancel{4} \\ - 27 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 54 \\ + 27 \\ \hline 81 \end{array}$$

81 pages altogether

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve mentally.

a. 4 ones + 6 ones = 1 ten

4 + 6 = 10

4 tens + 6 tens = 1 hundred

40 + 60 = 100

b. 1 ten = 3 ones + 7 ones

10 = 3 + 7

1 hundred = 3 tens + 7 tens

100 = 30 + 70

c. 1 ten more than 9 ones = 19

10 + 9 = 19

1 hundred more than 9 ones = 109

100 + 9 = 109

1 hundred more than 9 tens = 190

100 + 90 = 190

d. 2 ones + 8 ones = 1 ten

2 + 8 = 10

2 tens + 8 tens = 1 hundred

20 + 80 = 100

e. 5 ones + 6 ones = 1 ten(s) 1 one(s)

5 + 6 = 11

5 tens + 6 tens = 1 hundred(s) 1 ten(s)

50 + 60 = 110

f. 14 ones + 4 ones = 1 ten(s) 8 one(s)

14 + 4 = 18

14 tens + 4 tens = 1 hundred(s) 8 tens(s)

140 + 40 = 180

2. Solve.

a. 6 ones + 5 ones = 1 ten 1 one

$6 + 5 = \underline{11}$

6 tens + 5 tens = 1 hundred 1 ten

$60 + 50 = \underline{110}$

b. 5 ones + 7 ones = 1 ten 2 ones

$5 + 7 = \underline{12}$

5 tens + 7 tens = 1 hundred 2 tens

$50 + 70 = \underline{120}$

c. 9 ones + 8 ones = 1 ten 7 ones

$9 + 8 = \underline{17}$

9 tens + 8 tens = 1 hundred 7 tens

$90 + 80 = \underline{170}$

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

a.  $36 \xrightarrow{+4} \underline{40} \xrightarrow{+60} \underline{100} \xrightarrow{+30} \underline{130}$

b.  $78 \xrightarrow{+2} \underline{80} \xrightarrow{+10} \underline{90} \xrightarrow{+10} \underline{100}$

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

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

c.  $61 \xrightarrow{+9} \underline{70} \xrightarrow{+10} \underline{80} \xrightarrow{+10} \underline{90} \xrightarrow{+10} \underline{100} \xrightarrow{+100} \underline{200}$

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

d.  $27 \xrightarrow{+3} \underline{30} \xrightarrow{+70} \underline{100} \xrightarrow{+100} \underline{200}$

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

Name \_\_\_\_\_

Date \_\_\_\_\_

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

a.  $20 + 90 = \underline{110}$        $60 + 70 = \underline{130}$

b.  $29 + 93 = \underline{122}$        $69 + 72 = \underline{141}$

c.  $45 + 86 = \underline{131}$        $46 + 96 = \underline{142}$

d.  $47 + 115 = \underline{162}$        $47 + 95 = \underline{142}$

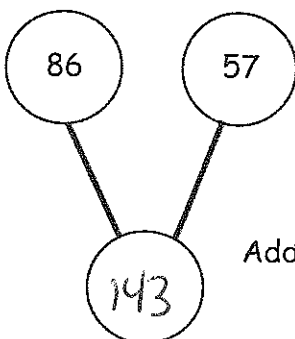
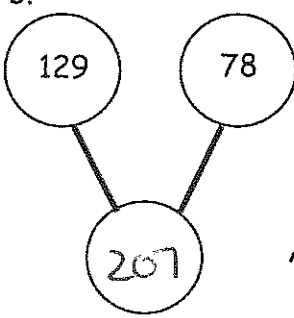
e.  $28 + 72 = \underline{100}$        $128 + 72 = \underline{200}$

2. Circle the statements that are true as you solve each problem using place value disks.

<p>a. <math>68 + 51</math></p> <p style="text-align: right;"> <math display="block">\begin{array}{r} 168 \\ + 51 \\ \hline 119 \end{array}</math> </p> <p>I change 10 ones for 1 ten.</p> <p><u>I change 10 tens for 1 hundred.</u></p> <p>The total of the two parts is 109.</p> <p><u>The total of the two parts is 119.</u></p>	<p>b. <math>127 + 46</math></p> <p style="text-align: right;"> <math display="block">\begin{array}{r} 127 \\ + 46 \\ \hline 173 \end{array}</math> </p> <p><u>I change 10 ones for 1 ten.</u></p> <p>I change 10 tens for 1 hundred.</p> <p>The total of the two parts is 163.</p> <p><u>The total of the two parts is 173.</u></p>
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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.

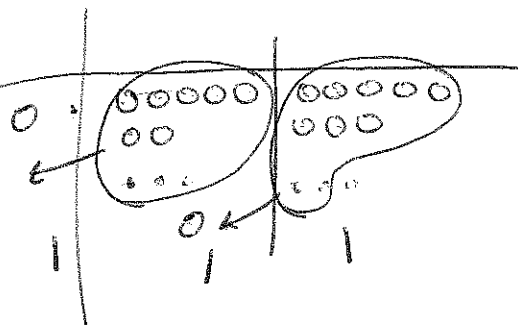
<p>a.</p>  <p style="text-align: right;">Addition Sentence:</p> <p style="text-align: center;"><u><math>86 + 57 = 143</math></u></p>	<p>b.</p>  <p style="text-align: right;">Addition Sentence:</p> <p style="text-align: center;"><u><math>129 + 78 = 207</math></u></p>
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4. Solve using your place value chart and place value disks.

a.  $45 + 55 = \underline{100}$

b.  $78 + 33 = \underline{111}$

c.  $37 + 84 = \underline{121}$



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve the following problems using the vertical form, your place value chart, and place value disks. Bundle a ten or hundred, if needed.

<p>a. <math>84 + 37</math></p> $\begin{array}{r} 84 \\ +37 \\ \hline 121 \end{array}$	<p>b. <math>42 + 79</math></p> $\begin{array}{r} 42 \\ +79 \\ \hline 121 \end{array}$
<p>c. <math>58 + 56</math></p> $\begin{array}{r} 58 \\ +56 \\ \hline 114 \end{array}$	<p>d. <math>46 + 96</math></p> $\begin{array}{r} 46 \\ +96 \\ \hline 142 \end{array}$
<p>e. <math>75 + 69</math></p> $\begin{array}{r} 75 \\ +69 \\ \hline 144 \end{array}$	<p>f. <math>48 + 94</math></p> $\begin{array}{r} 48 \\ +94 \\ \hline 142 \end{array}$

<p>g. <math>162 + 38</math></p> <div style="display: flex; align-items: center;"> <table style="border-collapse: collapse; margin-right: 20px;"> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">1</td><td style="border-bottom: 1px solid black; padding: 5px;">6</td><td style="border-bottom: 1px solid black; padding: 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">+</td><td style="padding: 5px;">3</td><td style="padding: 5px;">8</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">2</td><td style="padding: 5px;">0</td><td style="padding: 5px;">0</td></tr> </table> <table style="border-collapse: collapse;"> <tr><td style="border-right: 1px solid black; padding: 5px;">H.</td><td style="padding: 5px;">T</td><td style="padding: 5px;">O</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">0</td><td style="padding: 5px;">000000</td><td style="padding: 5px;">00</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">0</td><td style="padding: 5px;">000000</td><td style="padding: 5px;">000000</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">2</td><td style="padding: 5px;">00</td><td style="padding: 5px;">00</td></tr> </table> </div>	1	6	2	+	3	8	2	0	0	H.	T	O	0	000000	00	0	000000	000000	2	00	00	<p>h. <math>156 + 44</math></p> <div style="display: flex; align-items: center;"> <table style="border-collapse: collapse; margin-right: 20px;"> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">1</td><td style="border-bottom: 1px solid black; padding: 5px;">5</td><td style="border-bottom: 1px solid black; padding: 5px;">6</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">+</td><td style="padding: 5px;">4</td><td style="padding: 5px;">4</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">2</td><td style="padding: 5px;">0</td><td style="padding: 5px;">0</td></tr> </table> <table style="border-collapse: collapse;"> <tr><td style="border-right: 1px solid black; padding: 5px;">H</td><td style="padding: 5px;">T</td><td style="padding: 5px;">O</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">0</td><td style="padding: 5px;">000000</td><td style="padding: 5px;">000000</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">0</td><td style="padding: 5px;">000000</td><td style="padding: 5px;">000000</td></tr> <tr><td style="border-right: 1px solid black; padding: 5px;">2</td><td style="padding: 5px;">00</td><td style="padding: 5px;">00</td></tr> </table> </div>	1	5	6	+	4	4	2	0	0	H	T	O	0	000000	000000	0	000000	000000	2	00	00
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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?

7	4
+	4
1	2
1	2

123 bushes

b. How many trees and bushes were planted?

7	4
1	2
1	9
1	9

197 total



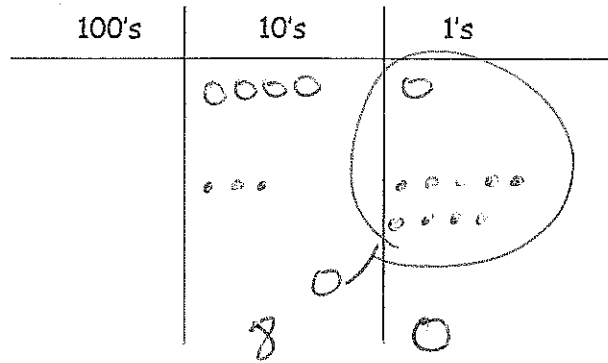
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve vertically. Draw chips on the place value chart and bundle, when needed.

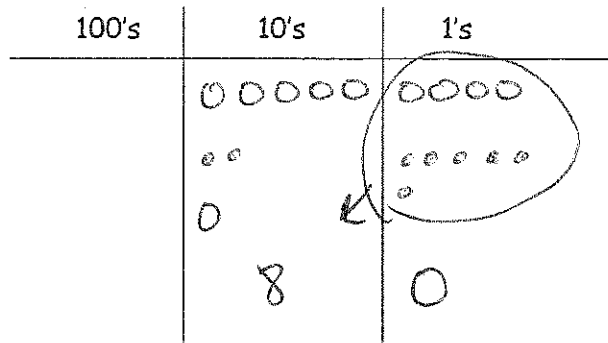
a.  $41 + 39 = \underline{80}$

$$\begin{array}{r} 41 \\ + 39 \\ \hline 80 \end{array}$$



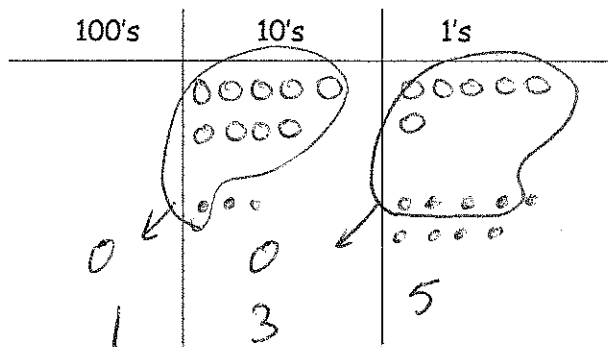
b.  $54 + 26 = \underline{80}$

$$\begin{array}{r} 54 \\ + 26 \\ \hline 80 \end{array}$$



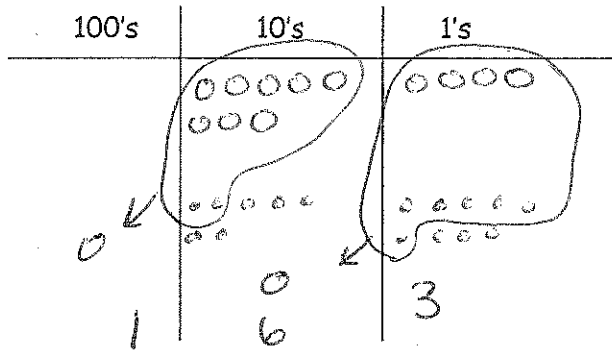
c.  $96 + 39 = \underline{135}$

$$\begin{array}{r} 96 \\ + 39 \\ \hline 135 \end{array}$$



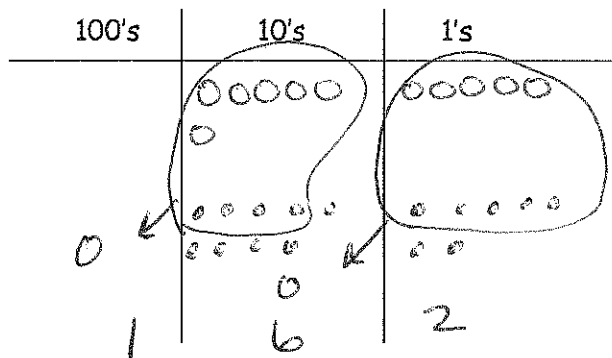
d.  $84 + 79 =$  \_\_\_\_\_

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



e.  $65 + 97 =$  \_\_\_\_\_

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



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><u>67</u></td> <td>63</td> </tr> <tr> <td>73</td> <td><u>83</u></td> </tr> <tr> <td>57</td> <td></td> </tr> </table>	<u>67</u>	63	73	<u>83</u>	57		<p>b.</p> <table style="width: 100%; text-align: center;"> <tr> <td>48</td> <td><u>92</u></td> </tr> <tr> <td>68</td> <td>62</td> </tr> <tr> <td><u>58</u></td> <td></td> </tr> </table>	48	<u>92</u>	68	62	<u>58</u>		<p>c.</p> <table style="width: 100%; text-align: center;"> <tr> <td><u>75</u></td> <td>55</td> </tr> <tr> <td>65</td> <td>45</td> </tr> <tr> <td></td> <td><u>75</u></td> </tr> </table>	<u>75</u>	55	65	45		<u>75</u>
<u>67</u>	63																			
73	<u>83</u>																			
57																				
48	<u>92</u>																			
68	62																			
<u>58</u>																				
<u>75</u>	55																			
65	45																			
	<u>75</u>																			

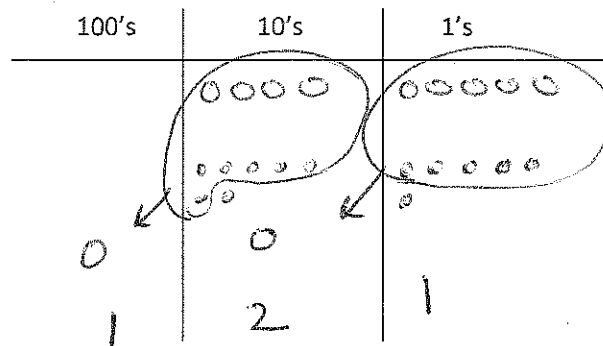
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve vertically. Draw chips on the place value chart and bundle, when needed.

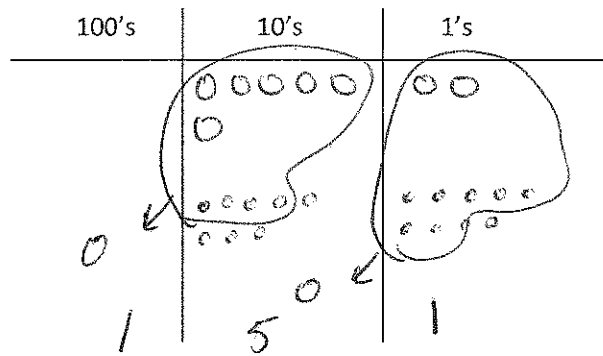
a.  $45 + 76 =$  \_\_\_\_\_

$$\begin{array}{r} 45 \\ + 76 \\ \hline 121 \end{array}$$



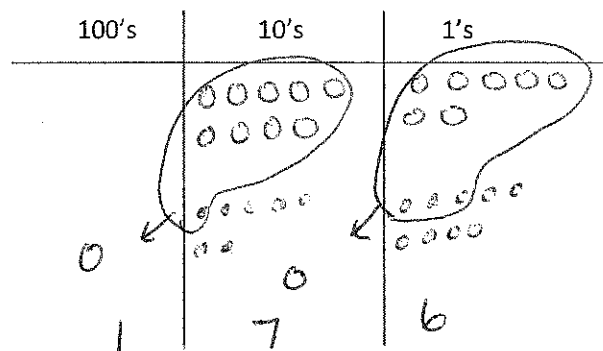
b.  $62 + 89 =$  \_\_\_\_\_

$$\begin{array}{r} 62 \\ + 89 \\ \hline 151 \end{array}$$



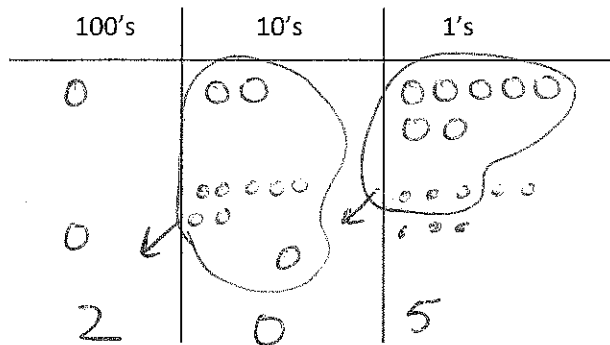
c.  $97 + 79 =$  \_\_\_\_\_

$$\begin{array}{r} 97 \\ + 79 \\ \hline 176 \end{array}$$



d.  $127 + 78 =$  \_\_\_\_\_

$$\begin{array}{r|} \text{100's} & \text{10's} & \text{1's} \\ \hline & 2 & 7 \\ + & 7 & 8 \\ \hline & 2 & 0 & 5 \end{array}$$



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?

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

106 points for the white team

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

$\begin{array}{r} 106 \\ + 69 \\ \hline 175 \end{array}$	white team
	blue team
	total

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Look to make 10 ones or 10 tens to solve the following problems using place value strategies.

<p>a.</p> $6 + 3 + 7 = \underline{16}$ <p style="margin-left: 40px;"> <math>\checkmark</math>            10         </p>	$36 + 23 + 17 = \underline{76}$ <p style="margin-left: 40px;"> <math>\checkmark</math>  <math>30 + 10</math>  <math>36 + 40</math> </p>	$126 + 23 + 17 = \underline{166}$ <p style="margin-left: 40px;"> <math>\checkmark</math>  <math>30 + 10</math>  <math>126 + 40</math> </p>
<p>b.</p> $8 + 2 + 5 = \underline{15}$ <p style="margin-left: 40px;"> <math>\checkmark</math>            10         </p>	$38 + 22 + 75 = \underline{135}$ <p style="margin-left: 40px;"> <math>\checkmark</math>  <math>50 + 10</math>  <math>60 + 75</math> </p>	$18 + 62 + 85 = \underline{165}$ <p style="margin-left: 40px;"> <math>\checkmark</math>  <math>20 + 10</math>  <math>80 + 85</math> </p>
<p>c.</p> $9 + 4 + 1 + 6 = \underline{20}$ <p style="margin-left: 40px;"> <math>\checkmark</math> <math>\checkmark</math>            10 10         </p>	$29 + 34 + 41 + 16 = \underline{120}$ <p style="margin-left: 40px;"> <math>\checkmark</math> <math>\checkmark</math> <math>\checkmark</math>  <math>60 + 10</math> <math>10 + 40</math>  <math>70 + 50</math> </p>	$81 + 34 + 19 + 56 = \underline{190}$ <p style="margin-left: 40px;"> <math>\checkmark</math> <math>\checkmark</math> <math>\checkmark</math>  <math>80 + 20</math> <math>10 + 80</math>  <math>100 + 90</math> </p>

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?

$$\begin{array}{r} 29 \\ 41 \\ + 24 \\ \hline 94 \end{array}$$

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

Red and Green

$$\begin{array}{r} 29 \\ + 41 \\ \hline 70 \end{array}$$

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







Blue and Black

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

Name \_\_\_\_\_

Date \_\_\_\_\_

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

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

<p>g. <math>156 - 80 = 76</math></p> $\begin{array}{r} \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \end{array}$ <p><math>100 - 80 = 20</math> <math>20 + 56 = 76</math></p>	<p>h. <math>138 - 40 = 98</math></p> $\begin{array}{r} \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \end{array}$ <p><math>100 - 40 = 60</math> <math>60 + 38 = 98</math></p>
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2. Monica incorrectly solved  $132 - 70$  to get 102. Show her how to solve it correctly.

<p>Monica's work:</p> $132 - 70 = \underline{\quad}$ $\begin{array}{r} \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \end{array}$ <p><math>100 - 30 = 70</math> <math>70 + 32 = 102</math></p>	<p>Correct way to solve <math>132 - 70 = 62</math></p> $\begin{array}{r} \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \end{array}$ <p><math>100 - 70 = 30</math> <math>30 + 32 = 62</math></p>
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3. Billy sold 50 fewer magazines than Alex. Alex sold 128 magazines. How many magazines did Billy sell? Solve using a number bond.

$$128 - 50 = ?$$

$$\begin{array}{r} \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \\ \phantom{1} \phantom{0} \phantom{0} \end{array}$$

$100 - 50 = 50$   
 $50 + 28 = 78$



Name \_\_\_\_\_

Date \_\_\_\_\_

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

a.  $38 - 8 = \underline{30}$     $38 - 9 = \underline{29}$     $138 - 38 = \underline{100}$     $138 - 39 = \underline{99}$

b.  $130 - 20 = \underline{110}$     $130 - 30 = \underline{100}$     $130 - 40 = \underline{90}$

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.</p> <p><math>115 - 50 = \underline{65}</math></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.</p> <p><math>125 - 57 = \underline{68}</math></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.</p> <p><math>88 - 39 = \underline{49}</math></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.</p> <p><math>186 - 39 = \underline{147}</math></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.</p> <p><math>162 - 85 = \underline{77}</math></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.</p> <p><math>172 - 76 = \underline{96}</math></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>



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

$$\begin{array}{r}
 0 \text{ } | \text{ } | \text{ } \\
 \text{y} | 15 | 17 \\
 - \quad | 8 | 8 \\
 \hline
 \quad | 7 | 9
 \end{array}$$

\$79 for mario

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

- a.  $155 - 66$
- b.  $144 - 88$
- c.  $177 - 33$
- d.  $139 - 97$

$$\begin{array}{r}
 0 \text{ } | \text{ } | \text{ } \\
 \text{y} | 12 | 13 \\
 - \quad | 7 | 7 \\
 \hline
 \quad | 5 | 6
 \end{array}$$

$$\begin{array}{r}
 0 \text{ } | \text{ } | \text{ } \\
 \text{y} | 14 | 15 \\
 - \quad | 6 | 6 \\
 \hline
 \quad | 8 | 9 \text{ NO}
 \end{array}$$

$$\begin{array}{r}
 0 \text{ } | \text{ } | \text{ } \\
 \text{y} | 13 | 14 \\
 - \quad | 8 | 8 \\
 \hline
 \quad | 5 | 6 \text{ yes}
 \end{array}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve the following problems using the vertical form, your place value chart, and place value disks. Unbundle a ten or hundred when necessary. Show your work for each problem.

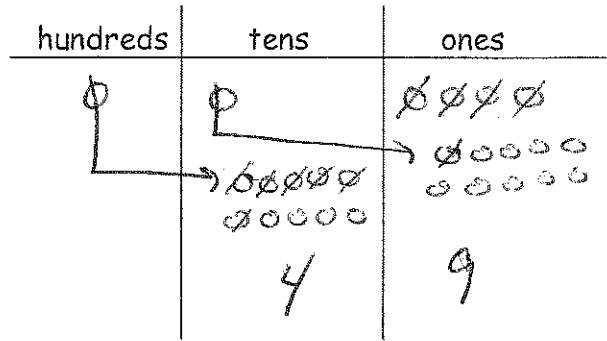
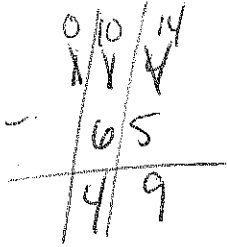
<p>a. <math>65 - 38</math></p>	<p>b. <math>66 - 49</math></p>
<p>c. <math>111 - 60</math></p>	<p>d. <math>120 - 67</math></p>
<p>e. <math>163 - 66</math></p>	<p>f. <math>184 - 95</math></p>
<p>g. <math>114 - 98</math></p>	<p>h. <math>154 - 85</math></p>

Name \_\_\_\_\_

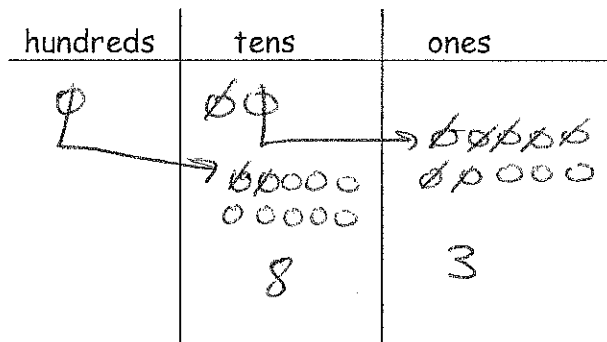
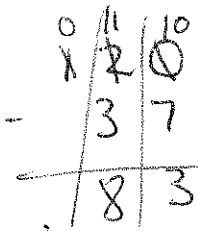
Date \_\_\_\_\_

1. Solve vertically. Draw chips on the place value chart. Unbundle when needed.

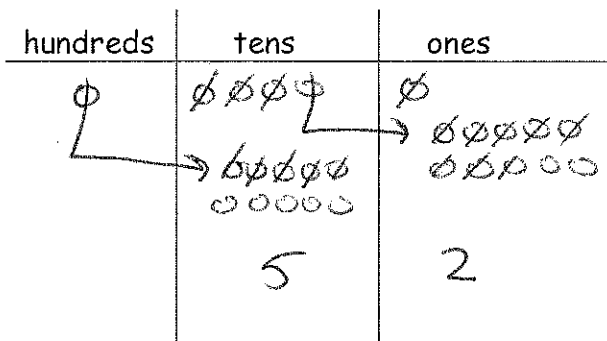
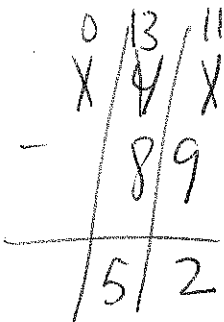
a.  $114 - 65 = \underline{49}$



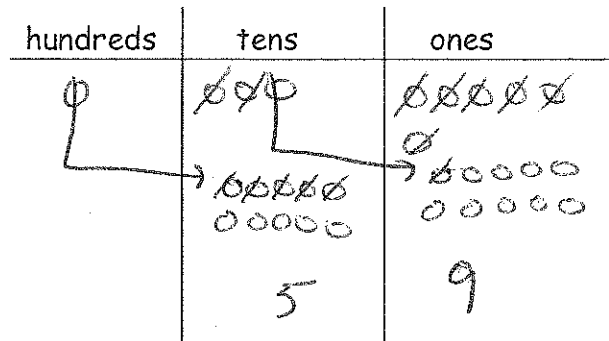
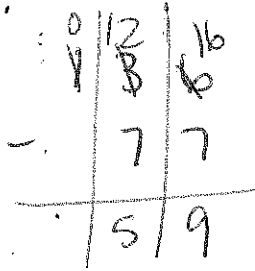
b.  $120 - 37 = \underline{83}$



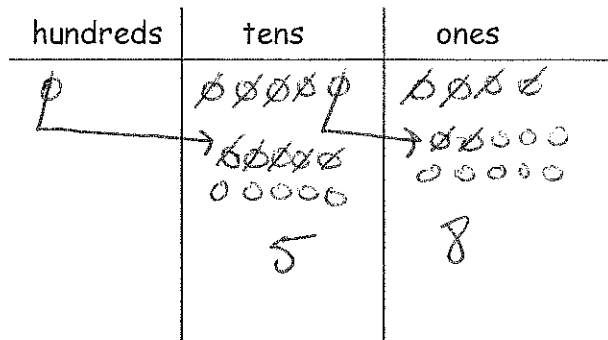
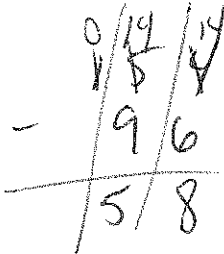
c.  $141 - 89 = \underline{52}$



d.  $136 - 77 = \underline{59}$



e.  $154 - 96 = \underline{58}$



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 border="1" style="margin: auto;"> <thead> <tr> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>○</td> <td>○○</td> <td>○○○</td> </tr> <tr> <td></td> <td>→ ○○○○○</td> <td>→ ○○○○○</td> </tr> <tr> <td></td> <td>○○○○○</td> <td>○○○○○</td> </tr> <tr> <td></td> <td>6</td> <td>9</td> </tr> </tbody> </table>	H	T	O	○	○○	○○○		→ ○○○○○	→ ○○○○○		○○○○○	○○○○○		6	9
H	T	O														
○	○○	○○○														
	→ ○○○○○	→ ○○○○○														
	○○○○○	○○○○○														
	6	9														

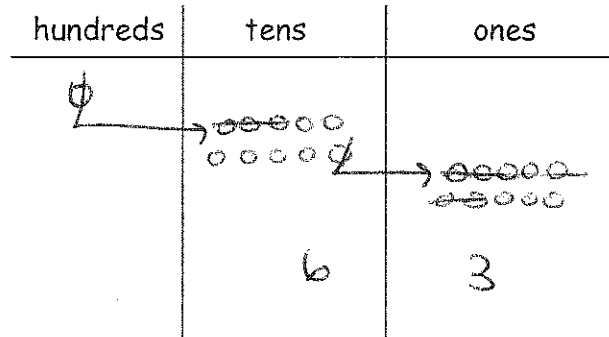
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve vertically. Draw chips on the place value chart. Unbundle when needed.

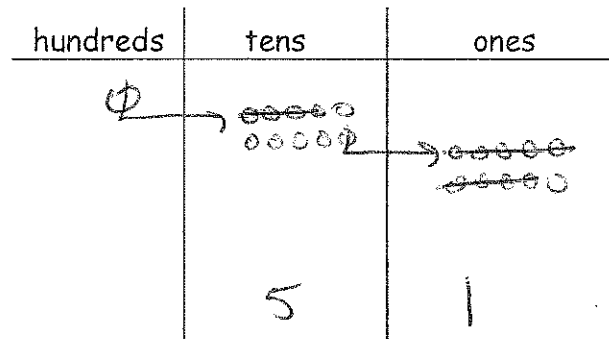
a.  $100 - 37 = \underline{63}$

$$\begin{array}{r} 0 \text{ } 9 \text{ } 10 \\ \cancel{1} \cancel{0} \cancel{0} \\ - \quad 37 \\ \hline 63 \end{array}$$



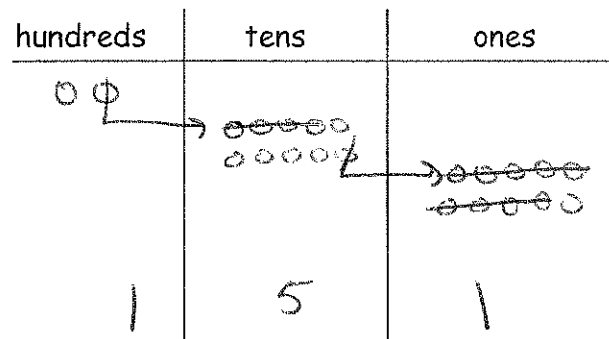
b.  $100 - 49 = \underline{51}$

$$\begin{array}{r} 0 \text{ } 9 \text{ } 10 \\ \cancel{1} \cancel{0} \cancel{0} \\ - \quad 49 \\ \hline 51 \end{array}$$



c.  $200 - 49 = \underline{151}$

$$\begin{array}{r} 1 \text{ } 9 \text{ } 10 \\ \cancel{2} \cancel{0} \cancel{0} \\ - \quad 49 \\ \hline 151 \end{array}$$



d.  $200 - 57 = \underline{143}$

$$\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - \quad \quad 57 \\ \hline 143 \end{array}$$

hundreds	tens	ones
0	<del>0000</del>	<del>00000</del>
1	4	3

e.  $200 - 83 = \underline{117}$

$$\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - \quad \quad 83 \\ \hline 117 \end{array}$$

hundreds	tens	ones
0	<del>0000</del>	<del>00000</del>
1	1	7

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

<p>Susan's work:</p> $\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - \quad 91 \\ \hline 109 \end{array}$ $\begin{array}{r} 109 \\ + 91 \\ \hline 200 \end{array}$	<p>Explanation:</p> <p>This works because you can add the 2 smaller numbers to create the larger one like a fact family.</p>
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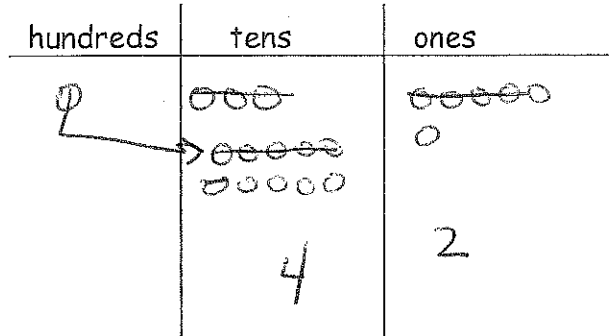
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve vertically. Draw chips on the place value chart. Unbundle when needed.

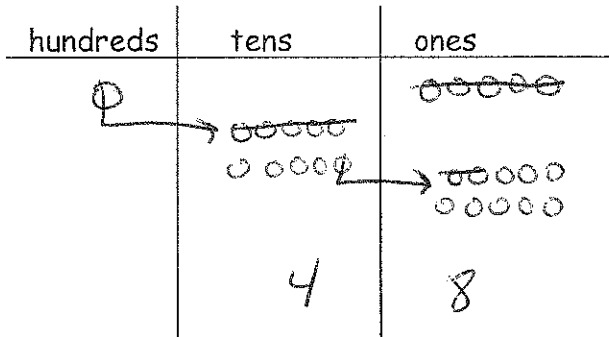
a.  $136 - 94 = \underline{42}$

$$\begin{array}{r} \phantom{0} \cancel{1} \overset{0}{\cancel{3}} \overset{1}{\cancel{6}} \\ - \phantom{0} \phantom{\cancel{3}} \phantom{\cancel{6}} \\ \hline \phantom{0} \phantom{\cancel{3}} \phantom{\cancel{6}} \\ \hline \phantom{0} \phantom{\cancel{3}} \phantom{\cancel{6}} \end{array}$$



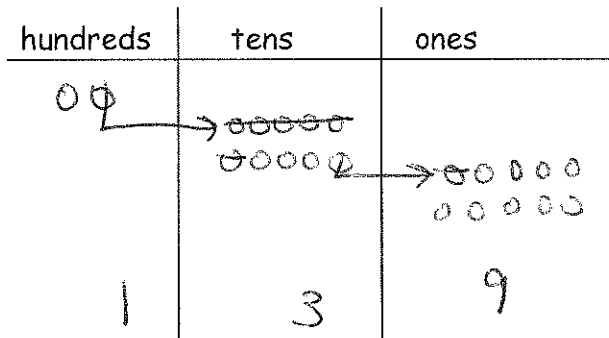
b.  $105 - 57 = \underline{48}$

$$\begin{array}{r} \phantom{0} \cancel{1} \overset{0}{\cancel{0}} \overset{1}{\cancel{5}} \\ - \phantom{0} \phantom{\cancel{0}} \phantom{\cancel{5}} \\ \hline \phantom{0} \phantom{\cancel{0}} \phantom{\cancel{5}} \\ \hline \phantom{0} \phantom{\cancel{0}} \phantom{\cancel{5}} \end{array}$$



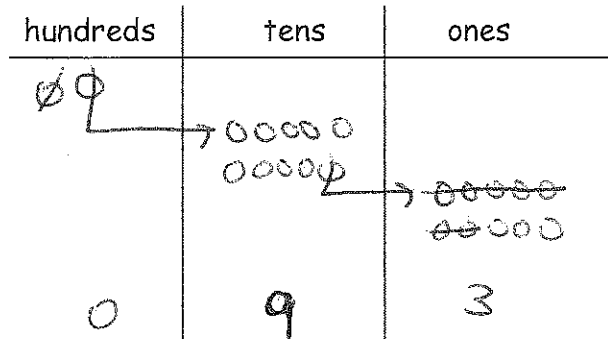
c.  $200 - 61 = \underline{139}$

$$\begin{array}{r} \phantom{0} \cancel{2} \overset{1}{\cancel{0}} \overset{0}{\cancel{0}} \\ - \phantom{0} \phantom{\cancel{0}} \phantom{\cancel{0}} \\ \hline \phantom{0} \phantom{\cancel{0}} \phantom{\cancel{0}} \\ \hline \phantom{0} \phantom{\cancel{0}} \phantom{\cancel{0}} \end{array}$$



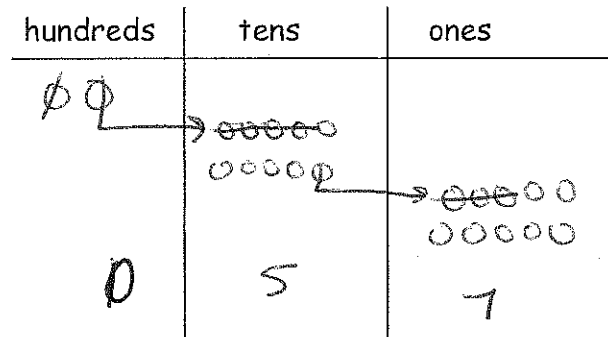
d.  $200 - 107 = \underline{93}$

$$\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - 107 \\ \hline 093 \end{array}$$



e.  $200 - 143 = \underline{57}$

$$\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - 143 \\ \hline 057 \end{array}$$



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?

$$\begin{array}{r} \overset{1}{\cancel{2}} \overset{9}{\cancel{0}} \overset{10}{\cancel{0}} \\ - 136 \\ \hline 064 \end{array}$$

64 shells left on the beach



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Add like units and record the totals below.

<p>a.</p> $\begin{array}{r} 48 \\ + 27 \\ \hline 15 \text{ ones} \\ 60 \text{ tens} \\ \hline 75 \end{array}$	<p>b.</p> $\begin{array}{r} 118 \\ + 73 \\ \hline 11 \\ 80 \\ 100 \\ \hline 191 \end{array}$
<p>c.</p> $\begin{array}{r} 156 \\ + 62 \\ \hline 8 \text{ ones} \\ 110 \text{ tens} \\ 100 \text{ hundreds} \\ \hline 218 \end{array}$	<p>d.</p> $\begin{array}{r} 137 \\ + 82 \\ \hline 9 \\ 110 \\ 100 \\ \hline 119 \end{array}$

<p>e.</p> $\begin{array}{r} 147 \\ + 35 \\ \hline 12 \\ 70 \\ 100 \\ \hline 182 \end{array}$	<p>f.</p> $\begin{array}{r} 149 \\ + 51 \\ \hline 10 \\ 90 \\ 100 \\ \hline 200 \end{array}$
<p>g.</p> $\begin{array}{r} 188 \\ + 22 \\ \hline 10 \\ 100 \\ 100 \\ \hline 210 \end{array}$	<p>h.</p> $\begin{array}{r} 126 \\ + 65 \\ \hline 11 \\ 80 \\ 100 \\ \hline 191 \end{array}$

2. Daniel counted 67 apples on one tree and 79 apples on another tree. How many apples were on both trees? Add like units and record the totals below to solve.

$$\begin{array}{r} 67 \\ + 79 \\ \hline 16 \\ 130 \\ \hline 146 \end{array}$$

146 apples on both trees

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Kari and Marty solved
- $136 + 56$
- .

Kari's work:	Marty's work:
$\begin{array}{r} 136 \\ + 56 \\ \hline 192 \end{array}$	$\begin{array}{r} 136 \\ + 56 \\ \hline 12 \\ 80 \\ + 100 \\ \hline 192 \end{array}$

Explain what is different about how Kari and Marty solved the problem.

marty added like units together and  
then solved the problem so there was no  
bundling. kari solved it vertically so she had  
to bundle a new group of ten.

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> $\begin{array}{r} 145 \\ + 67 \\ \hline 12 \\ 100 \\ 100 \\ \hline \boxed{212} \end{array}$
--	---

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

They both add the ones, then the groups of ten and finally the groups of 100.

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

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

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Melissa had 56 pens and 37 more pencils than pens.

a. How many pencils did Melissa have?

$$\begin{array}{r} 1 \\ 56 \\ + 37 \\ \hline 93 \end{array} \text{ pencils.}$$

b. How many pens and pencils did Melissa have?

$$\begin{array}{r} 93 \\ + 56 \\ \hline 149 \end{array} \text{ total}$$

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?

$$\begin{array}{r} 6 \\ 72 \\ - 27 \\ \hline 45 \end{array} \qquad \begin{array}{r} 45 \\ - 15 \\ \hline 30 \end{array}$$

Antonio has 30 tomatoes left

3. The bakery made 92 muffins. Seventeen were blueberry, 23 were cranberry, and the rest were chocolate chip. How many chocolate chip muffins did the bakery make?

$$\begin{array}{r} 8 \phantom{0} / 12 \\ 9 \phantom{0} / 2 \\ - 1 \phantom{0} / 7 \\ \hline 7 \phantom{0} / 5 \end{array}$$

$$\begin{array}{r} 7 \phantom{0} / 5 \\ - 2 \phantom{0} / 3 \\ \hline 5 \phantom{0} / 2 \end{array}$$

52 were chocolate chip

4. After spending \$43 on groceries and \$19 on a book, Mrs. Groom had \$16 left. How much money did Mrs. Groom have to begin with?

$$\begin{array}{r} 1 \phantom{0} / 6 \\ + 1 \phantom{0} / 9 \\ \hline 3 \phantom{0} / 5 \end{array} \quad \begin{array}{r} 3 \phantom{0} / 5 \\ + 4 \phantom{0} / 3 \\ \hline 7 \phantom{0} / 8 \end{array}$$

\$ 78 to begin with