

Name \_\_\_\_\_ Date \_\_\_\_\_ Part 1

|      |   |      |  |
|------|---|------|--|
| (1A) | <p>1. In September, South Washington School had 38 computers. One month later, 10 <b>more</b> computers were given to the school. How many computers does South Washington School now have?</p> <p><input type="radio"/> 28</p> <p><input type="radio"/> 37</p> <p><input type="radio"/> 39</p> <p><input type="radio"/> 48</p> | (1A) | <p>4. Tom took 18 giant steps forward. Al took 1 <b>more</b> giant step than Tom did. How many giant steps did Al take?</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 10</p> <p><input type="radio"/> 19</p> <p><input type="radio"/> 28</p> |
| (1A) | <p>2. Martha had \$87.00 in her wallet. She gave \$10.00 to George. How much money did that leave for Martha?</p> <p><del>\$77</del></p> <p><del>\$86</del></p> <p><del>\$88</del></p> <p><del>\$97</del></p>   | (1B) | <p>5. Which means the same as <math>500 + 60 + 7</math>?</p> <p><del>513</del></p> <p><del>567</del></p> <p><del>756</del></p> <p><del>765</del></p>   |
| (1A) | <p>3. Traci had 48 cookies. Sophia had 1 <b>fewer</b> cookie than Traci did. How many cookies did Sophia have?</p> <p><del>38</del></p> <p><del>47</del></p> <p><del>49</del></p> <p><del>58</del></p>  | (1B) | <p>6. What is another name for <math>800 + 3</math>?</p> <p><input type="radio"/> 83</p> <p><input type="radio"/> 803</p> <p><del>8003</del></p> <p><del>8300</del></p>  |
|      |   | (1B) | <p>7. What is another name for <math>400 + 90 + 0</math>?</p> <p><input type="radio"/> 409</p> <p><input type="radio"/> 490</p> <p><del>4090</del></p> <p><del>4900</del></p>  |

|  |  |
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| <p style="text-align: right;">(1B)</p> <p>8. Which means the same as 829?</p> <p><input type="radio"/> 80 + 2 + 9</p> <p><input type="radio"/> 80 + 20 + 90</p> <p><input type="radio"/> 800 + 20 + 90</p> <p><input type="radio"/> 800 + 20 + 9</p> | <p style="text-align: right;">(1C)</p> <p>12. Which means the same as 47?</p> <p><input type="radio"/> 30 + 7</p> <p><input type="radio"/> 30 + 17</p> <p><input type="radio"/> 40 + 17</p> <p><input type="radio"/> 4 + 70</p>  |
| <p style="text-align: right;">(1B)</p> <p>9. What is another name for 602?</p> <p><input type="radio"/> 600 + 20</p> <p><input type="radio"/> 600 + 2</p> <p><input type="radio"/> 60 + 20</p> <p><input type="radio"/> 60 + 2</p>                   | <p style="text-align: right;">(1C)</p> <p>13. Which means the same as 58?</p> <p><input type="radio"/> 50 tens, 8 ones</p> <p><input type="radio"/> 58 tens</p> <p><input type="radio"/> 4 tens, 18 ones</p> <p><input type="radio"/> 40 tens, 8 ones</p>                    |
| <p style="text-align: right;">(1C)</p> <p>10. Which means the same as 8 tens and 14 ones?</p> <p><input type="radio"/> 84</p> <p><input type="radio"/> 94</p> <p><input type="radio"/> 104</p> <p><input type="radio"/> 114</p>                      | <p style="text-align: right;">(1C)</p> <p>14. What is another name for 36?</p> <p><input type="radio"/> 1 tens and 6 ones</p> <p><input type="radio"/> 2 tens and 16 ones</p> <p><input type="radio"/> 3 tens and 16 ones</p> <p><input type="radio"/> 4 tens and 6 ones</p> |
| <p style="text-align: right;">(1C)</p> <p>11. What is another name for 6 tens and 10 ones?</p> <p><input type="radio"/> 16</p> <p><input type="radio"/> 61</p> <p><input type="radio"/> 70</p> <p><input type="radio"/> 71</p>                       | <p style="text-align: right;">(1C)</p> <p>15. Which means the same as 2 tens and 17 ones?</p> <p><input type="radio"/> 27</p> <p><input type="radio"/> 37</p> <p><input type="radio"/> 217</p> <p><input type="radio"/> 307</p>  |

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| <p style="text-align: right;">(1D)</p> <p>16. What is the value of 2 in the number 28?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 80</p>      | <p style="text-align: right;">(1D)</p> <p>20. What is the value of 7 in the number 847?</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 12</p> <p><input type="radio"/> 19</p>                             |
| <p style="text-align: right;">(1D)</p> <p>17. What is the value of 3 in the number 93?</p> <p><input type="radio"/> 3000</p> <p><input type="radio"/> 300</p> <p><input type="radio"/> 30</p> <p><input type="radio"/> 3</p>  | <p style="text-align: right;">(1D)</p> <p>21. In which number does the tens place have the <b>greatest</b> value?</p> <p><input type="radio"/> 89</p> <p><input type="radio"/> 47</p> <p><input type="radio"/> 68</p> <p><input type="radio"/> 90</p> |
| <p style="text-align: right;">(1D)</p> <p>18. What is the value of 6 in the number 460?</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 60</p> <p><input type="radio"/> 600</p> <p><input type="radio"/> 6000</p> | <p style="text-align: right;">(1D)</p> <p>22. In which number does the tens place have the <b>least</b> value?</p> <p><input type="radio"/> 98</p> <p><input type="radio"/> 74</p> <p><input type="radio"/> 86</p> <p><input type="radio"/> 59</p>    |
| <p style="text-align: right;">(1D)</p> <p>19. What is the value of 9 in the number 925?</p> <p><input type="radio"/> 900</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 9</p>    | <p style="text-align: right;">(1D)</p> <p>23. In which number does the ones place have the <b>least</b> value?</p> <p><input type="radio"/> 89</p> <p><input type="radio"/> 47</p> <p><input type="radio"/> 68</p> <p><input type="radio"/> 90</p>    |

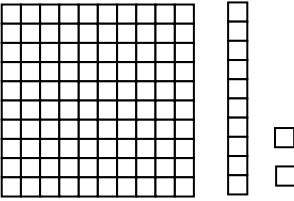
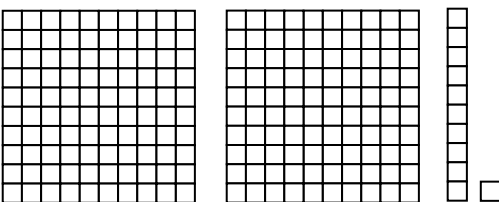
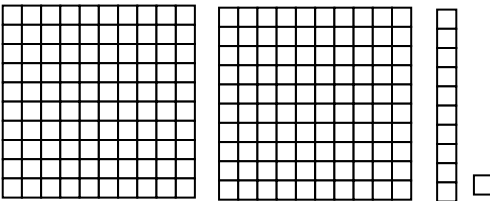
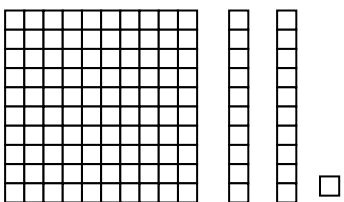
|   |   |
|---|---|
| <p style="text-align: right;">(1D)</p> <p>24. In which number does the ones place have the <b>greatest</b> value?</p> <p><input type="radio"/> 25</p> <p><input type="radio"/> 86</p> <p><input type="radio"/> 42</p> <p><input type="radio"/> 19</p>     | <p style="text-align: right;">(1D)</p> <p>28. In which number does the hundreds place have the <b>greatest</b> value?</p> <p><input type="radio"/> 298</p> <p><input type="radio"/> 531</p> <p><input type="radio"/> 486</p> <p><input type="radio"/> 673</p> |
| <p style="text-align: right;">(1D)</p> <p>25. In which number does the tens place have the <b>greatest</b> value?</p> <p><input type="radio"/> 163</p> <p><input type="radio"/> 980</p> <p><input type="radio"/> 439</p> <p><input type="radio"/> 657</p> | <p style="text-align: right;">(1D)</p> <p>29. In which number does the ones place have the <b>least</b> value?</p> <p><input type="radio"/> 123</p> <p><input type="radio"/> 321</p> <p><input type="radio"/> 246</p> <p><input type="radio"/> 642</p>        |
| <p style="text-align: right;">(1D)</p> <p>26. In which number does the hundreds place have the <b>least</b> value?</p> <p><del>3</del>58</p> <p><del>5</del>09</p> <p><del>2</del>87</p> <p><del>1</del>99</p>  | <p style="text-align: right;">(1D)</p> <p>30. In which number does the tens place have the <b>least</b> value?</p> <p><input type="radio"/> 290</p> <p><input type="radio"/> 608</p> <p><input type="radio"/> 472</p> <p><input type="radio"/> 913</p>        |
| <p style="text-align: right;">(1D)</p> <p>27. In which number does the ones place have the <b>greatest</b> value?</p> <p><input type="radio"/> 407</p> <p><input type="radio"/> 982</p> <p><input type="radio"/> 235</p> <p><input type="radio"/> 864</p> | <p style="text-align: right;">(1D)</p> <p>31. The value of 42 would change by how much if the 2 were replaced by a 6?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 8</p>         |

|  |   |
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| <p style="text-align: right;">(1D)</p> <p>32. The value of 87 would change by how much if 3 replaced 7?</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 40</p> <p><input type="radio"/> 400</p> <p><input type="radio"/> 4000</p>          | <p style="text-align: right;">(1D)</p> <p>36. The value of 472 would change by how much if 9 replaced the 2?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 700</p>     |
| <p style="text-align: right;">(1D)</p> <p>33. The value of 259 would change by how much if 3 replaced 2?</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 10</p> <p><input type="radio"/> 100</p> <p><input type="radio"/> 1000</p>         | <p style="text-align: right;">(1D)</p> <p>37. The value of 825 would change by how much if 2 were replaced by 0?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 100</p> |
| <p style="text-align: right;">(1D)</p> <p>34. The value of 831 would change by how much if the 3 were replaced by 7?</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 70</p> <p><input type="radio"/> 40</p> | <p style="text-align: right;">(1D)</p> <p>38. The value of 963 would change by how much if 1 replaced 3?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 200</p> <p><input type="radio"/> 2000</p>      |
| <p style="text-align: right;">(1D)</p> <p>35. The value of 628 would change by how much if 5 replaced the 6?</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 10</p> <p><input type="radio"/> 100</p> <p><input type="radio"/> 1000</p>     |   |

Name \_\_\_\_\_ Date \_\_\_\_\_ Part 2

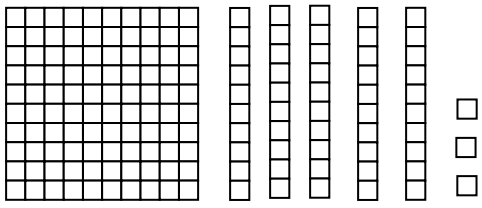
(2A)

1. Which picture shows 121?

- 
- 
- 
- 

(2A)

2. Which number is shown by the blocks in this picture?

- 
- 531
  - 153
  - 315
  - 135

(4C)

3. Ellen has 27 ribbons for her hair. This number is **closest to**

- 10
- 15
- 20
- 30

(4C)

4. Andrew weighs 92 pounds. This number is **about**

- 70
- 80
- 90
- 100

Grade 3 *Growing with Mathematics*: Topic 12

|   |   |
|---|---|
| <p style="text-align: right;">(4C)</p> <p>5. A sailfish can swim 68 miles in one hour. This number is</p> <ul style="list-style-type: none"> <li><input type="radio"/> a little less than 60</li> <li><input type="radio"/> a little more than 60</li> <li><input type="radio"/> a little less than 70</li> <li><input type="radio"/> a little more than 70</li> </ul>  | <p style="text-align: right;">(5B)</p> <p>8. There were 18 pencils in a box. Sue took out 2 pencils. To find out how many pencils are still in the box, you could</p> <ul style="list-style-type: none"> <li><input type="radio"/> add 18 and 2</li> <li><input type="radio"/> subtract 2 from 18</li> <li><input type="radio"/> multiply 2 by 18</li> <li><input type="radio"/> divide 18 by 2</li> </ul>  |
| <p style="text-align: right;">(4C)</p> <p>6. Taylor's favorite number is 33. This number is <b>a little</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> less than 30</li> <li><input type="radio"/> more than 30</li> <li><input type="radio"/> less than 40</li> <li><input type="radio"/> more than 40</li> </ul>  | <p style="text-align: right;">(5B)</p> <p>9. My street has 10 white houses and 5 yellow houses. Which number sentence shows how many more white houses there are than yellow houses?</p> <ul style="list-style-type: none"> <li><input type="radio"/> <math>10 \times 5 = \square</math></li> <li><input type="radio"/> <math>10 - 5 =</math></li> <li><input type="radio"/> <math>10 + 5 = \square</math></li> <li><input type="radio"/> <math>10 \div 5 =</math></li> </ul> |
| <p style="text-align: right;">(5B)</p> <p>7. Jackie talked on the phone for 12 minutes on Monday. She talked for 6 minutes on Tuesday. Which number sentence can you use to find the total number of minutes Jackie talked on the phone?</p> <ul style="list-style-type: none"> <li><input type="radio"/> <math>12 \times 6 =</math></li> <li><input type="radio"/> <math>12 - 6 = \square</math></li> <li><input type="radio"/> <math>12 + 6 = \square</math></li> <li><input type="radio"/> <math>12 \div 6 =</math></li> </ul> | <p style="text-align: right;">(5B)</p> <p>10. The lunch count said that 58 third graders bought hot lunch. Also, 39 third graders had cold lunch. To find out how many children ate lunch that day, you should</p> <ul style="list-style-type: none"> <li><input type="radio"/> divide 58 by 39</li> <li><input type="radio"/> add 58 and 39</li> <li><input type="radio"/> multiply 38 by 59</li> <li><input type="radio"/> subtract 38 from 59</li> </ul>                   |

11. Write a story problem that can be solved using the number sentence (5C)

$$14 - 6 = \square .$$

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12. Solve this problem. (7A)

$$\begin{array}{r} 45 \\ + 23 \\ \hline \end{array}$$

- 22
- 28
- 68
- 77

14. Solve this problem. (7A)

$$\begin{array}{r} 57 \\ - 32 \\ \hline \end{array}$$

- 25
- 34
- 85
- 89

13. Solve this problem. (7A)

$$46 + 21 =$$

- 13
- 25
- 58
- 67

15. Solve this problem. (7A)

$$55 - 24 =$$

- 13
- 31
- 89
- 97

16. Solve this problem. (7B)

$$\begin{array}{r} 38 \\ + 26 \\ \hline \end{array}$$

- 54
- 56
- 62
- 64

(9AB)

19. Jean had 45 carrot sticks. Andrew had 21 carrot sticks. How many carrot sticks do they have in all?

- 23
- 26
- 66
- 93

17. Solve this problem. (7B)

$$49 + 8 =$$

- 43
- 49
- 76
- 94

(9A/B)

20. Red roses cost 98¢ each. Yellow roses cost 85¢ each. How much more money do red roses cost than yellow roses?

- 13¢
- 40¢
- 60¢
- 63¢

(9A/B)

18. The third graders saved 54 pennies and 18 nickels. The fourth graders saved 13 nickels and 28 pennies. How many pennies were saved?

- 31
- 41
- 72
- 82

(9A/B)

21. Sasha has 45 gold stars. She also has 12 silver stars. How many stars does she have altogether?

- 37
- 55
- 57
- 66

(9A/B)

22. Andy bought 48 fish for his tank. He gave 25 fish to his brother. How many fish did he keep?

- 23
- 43
- 63
- 73

(9A/B)

23. Linda has 23 baseball cars. Olivia has 41 baseball cards. Rachel has 22 gel pens. How many baseball cards do the girls have altogether?

- 46
- 61
- 64
- 86

(10A)

24. Luis needs to add 68 and 29. Which of the following would be **best** for Luis to use to **estimate** the sum?

- $60 + 20$
- $60 + 30$
- $70 + 20$
- $70 + 30$

(10A)

25. Angela needs to subtract 22 from 81. Which of the following would be **best** for Angela to use to **estimate** the **difference**?

- $80 + 20$
- $80 + 30$
- $90 + 20$
- $90 + 30$

(10A)

26. Andrew bought a new wheel for his bike for \$28.95. He gave the clerk \$50. Which of the following would be **best** for Andrew to use to **estimate** his change?

- $\$50 - \$20$
- $\$20 - \$50$
- $\$50 - \$30$
- $\$30 - \$50$

(10A)

27. Mrs. Dea drove 236 miles last weekend. She drove 415 miles this weekend. Which of the following would be **best** for Mrs. Dea to use to **estimate** the difference in miles?

- $400 - 200$
- $500 - 200$
- $400 - 300$
- $500 - 300$

(10A)

28. Jacky bought a new book for \$29.98 and a small TV set for \$79.85. Which of the following would be **best** for Jacky to use to **estimate** the total cost?

- \$20 + \$70
- \$20 + \$80
- \$30 + \$70
- \$30 + \$80

(11A)

31. Joan read 82 pages in her book. Terri read 29 pages in her book. **About** how many more pages did Joan read than Terri?

- 30
- 40
- 50
- 60

(10A)

29. Jorge has 297 gold stars. He wants 821. Which of the following would be **best** for Jorge to use to **estimate** how many more stars he needs?

- 800 – 200
- 900 – 200
- 800 – 300
- 900 - 300

(11A)

32. Kim picked 328 strawberries. Li picked 298 strawberries. **About** how many strawberries did the two girls pick?

- 500
- 600
- 700
- 800

(11A)

30. The first graders built a tower with 321 blocks. The second graders used 395 blocks. **About** how many blocks were used in all?

- less than 500
- between 650 and 750
- between 750 and 850
- more than 850

(11A)

33. There were 49 children absent from school on Monday. On Tuesday there were 23 children absent. **About** how many children were absent altogether?

- a little less than 60
- a little more than 60
- a little less than 70
- a little more than 70

|  |   |
|--|---|
| <p style="text-align: right;">(11A)</p> <p>34. In May 72 first graders went on a field trip. Only 19 kindergarteners went on a field trip in June. <b>About</b> how many more children went on a trip in May than in June?</p> <p><input type="radio"/> a little less than 50</p> <p><input type="radio"/> a little more than 50</p> <p><input type="radio"/> a little less than 60</p> <p><input type="radio"/> a little more than 60</p> | <p style="text-align: right;">(11A)</p> <p>37. The Pizza Palace sold 261 pizzas on Monday. It sold 598 pizzas on Friday. <b>About</b> how many pizzas were sold in all?</p> <p>850</p> <p>860</p> <p>870</p> <p>880</p>   |
| <p style="text-align: right;">(11A)</p> <p>35. Miguel bought 5 baseballs ranging in price from \$3 to \$8. How much money could he have spent on baseballs altogether?</p> <p><input type="radio"/> \$30</p> <p><input type="radio"/> \$50</p> <p><input type="radio"/> \$70</p> <p><input type="radio"/> \$90</p>   | <p style="text-align: right;">(11A)</p> <p>38. One city truck plowed snow on 612 miles of roads today. Another truck plowed snow on 279 miles of road. <b>About</b> how many more miles did the first truck plow than the second truck?</p> <p>200</p> <p>300</p> <p>400</p> <p>500</p> |
| <p style="text-align: right;">(11A)</p> <p>36. Lisa was counting the classrooms in a school. The school had 3 floors. On each floor there were between 5 and 10 classrooms. How many classrooms could be in the school?</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 40</p> <p><input type="radio"/> 60</p> <p><input type="radio"/> 80</p>  |   |

Name \_\_\_\_\_ Date \_\_\_\_\_

Sally makes and sells sweaters for dolls. The sweaters have either 3 buttons or 5 buttons on them. This chart shows the cost of the sweaters.

| SWEATERS COST     |        |
|-------------------|--------|
| 3-Button Sweaters | \$2.50 |
| 5-Button Sweaters | \$4.00 |

- Sally wants to sell at least \$25 worth of sweaters.
- She must sell at least 1 of each type of sweater.
- Show two different ways Sally could make at least \$25.
- Show the total cost of all the sweaters sold.
- Show the types of sweaters sold.
- Show your work.

You may fill in the charts to help you.

|                   | Cost of 1 Sweater | Number of Sweaters | Cost of Sweaters |
|-------------------|-------------------|--------------------|------------------|
| 3-button sweaters | \$2.50            |                    |                  |
| 5-button sweaters | \$4.00            |                    |                  |
| TOTALS            |                   |                    |                  |

|                   | Cost of 1 Sweater | Number of Sweaters | Cost of Sweaters |
|-------------------|-------------------|--------------------|------------------|
| 3-button sweaters | \$2.50            |                    |                  |
| 5-button sweaters | \$4.00            |                    |                  |
| TOTALS            |                   |                    |                  |

## Topic 12: Subtracting 2- and 3-Digit Numbers

- 1A: Solve problems involving 1 MORE/LESS or 10 MORE/LESS using 2-digit numbers.
- 1B: Identify alternative forms of expressing 3-digit whole numbers using expanded notation.
- 1C: Identify alternative forms of expressing 2-digit whole numbers using regrouping.
- 1D: Use place value concepts to identify and compare the magnitude and value of digits in 2- and 3-digit numbers.
  
- 2A: Relate pictorial representations of base ten blocks to whole numbers and vice versa.
  
- 4C: Round 2-digit whole numbers in context.
  
- 5B: Identify the appropriate operation or number sentence to solve a story problem.
- 5C: Write a story problem from a subtraction number sentence (1-digit numbers).
  
- 7A: Add and subtract 1- and 2-digit whole numbers without regrouping.
- 7B: Add 1- and 2-digit numbers with regrouping.
  
- 9A/9B: Solve simple story problems involving addition and subtraction, with or without extraneous information.
  
- 10A: Identify the best expression to find an estimate.
- 11A: Identify a reasonable estimate to a problem.
  
- 25A: Solve extended numerical and statistical problems.

ANSWERS  
PART 1

|  |   |
|--|---|
| <p style="text-align: right;">(1A)</p> <p>1. In September, South Washington School had 38 computers. One month later, 10 <b>more</b> computers were given to the school. How many computers does South Washington School now have?</p> <p><input type="radio"/> 28</p> <p><input type="radio"/> 37</p> <p><input type="radio"/> 39</p> <p><input type="radio"/> 48 ***</p> | <p style="text-align: right;">(1A)</p> <p>4. Tom took 18 giant steps forward. Al took 1 <b>more</b> giant step than Tom did. How many giant steps did Al take?</p> <p>8</p> <p>10</p> <p>19 ***</p> <p>28</p> |
| <p style="text-align: right;">(1A)</p> <p>2. Martha had \$87.00 in her wallet. She gave \$10.00 to George. How much money did that leave for Martha?</p> <p><input type="radio"/> \$77 ***</p> <p><input type="radio"/> \$86</p> <p><input type="radio"/> \$88</p> <p><input type="radio"/> \$97</p>   | <p style="text-align: right;">(1B)</p> <p>5. Which means the same as <math>500 + 60 + 7</math>?</p> <p>513</p> <p>567 ***</p> <p>756</p> <p>765</p>   |
| <p style="text-align: right;">(1A)</p> <p>3. Traci had 48 cookies. Sophia had 1 <b>fewer</b> cookie than Traci did. How many cookies did Sophia have?</p> <p><input type="radio"/> 38</p> <p><input type="radio"/> 47 ***</p> <p><input type="radio"/> 49</p> <p><input type="radio"/> 58</p>  | <p style="text-align: right;">(1B)</p> <p>6. What is another name for <math>800 + 3</math>?</p> <p>83</p> <p>803 ***</p> <p>8003</p> <p>8300</p>  |
|  | <p style="text-align: right;">(1B)</p> <p>7. What is another name for <math>400 + 90 + 0</math>?</p> <p>409</p> <p>490 ***</p> <p>4090</p> <p>4900</p>  |

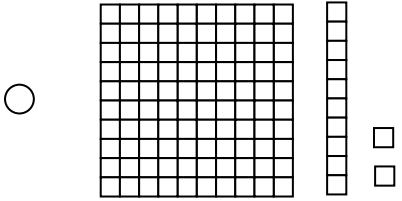
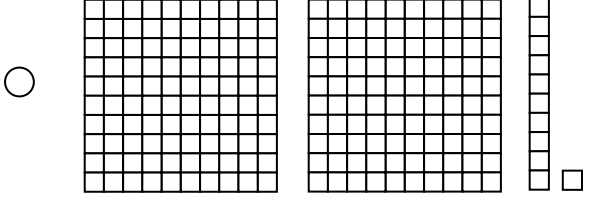
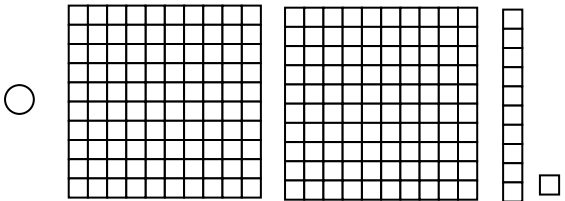
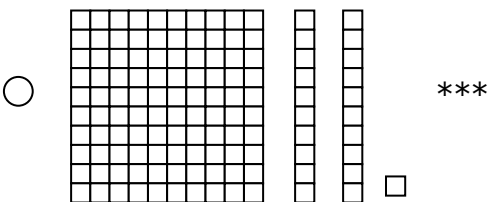
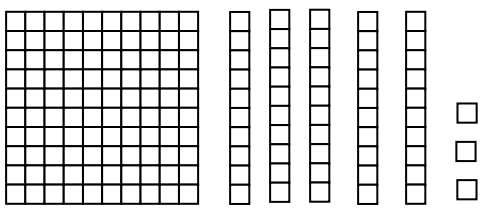
|  |  |
|--|--|
| <p style="text-align: right;">(1B)</p> <p>8. Which means the same as 829?</p> <p><input type="radio"/> 80 + 2 + 9</p> <p><input type="radio"/> 80 + 20 + 90</p> <p><input type="radio"/> 800 + 20 + 90</p> <p><input type="radio"/> 800 + 20 + 9 ***</p> | <p style="text-align: right;">(1C)</p> <p>12. Which means the same as 47?</p> <p><input type="radio"/> 30 + 7</p> <p><input type="radio"/> 30 + 17 ***</p> <p><input type="radio"/> 40 + 17</p> <p><input type="radio"/> 4 + 70</p>  |
| <p style="text-align: right;">(1B)</p> <p>9. What is another name for 602?</p> <p><input type="radio"/> 600 + 20</p> <p><input type="radio"/> 600 + 2 ***</p> <p><input type="radio"/> 60 + 20</p> <p><input type="radio"/> 60 + 2</p>                   | <p style="text-align: right;">(1C)</p> <p>13. Which means the same as 58?</p> <p><input type="radio"/> 50 tens, 8 ones</p> <p><input type="radio"/> 58 tens</p> <p><input type="radio"/> 4 tens, 18 ones ***</p> <p><input type="radio"/> 40 tens, 8 ones</p>                    |
| <p style="text-align: right;">(1C)</p> <p>10. Which means the same as 8 tens and 14 ones?</p> <p><input type="radio"/> 84</p> <p><input type="radio"/> 94 ***</p> <p><input type="radio"/> 104</p> <p><input type="radio"/> 114</p>                      | <p style="text-align: right;">(1C)</p> <p>14. What is another name for 36?</p> <p><input type="radio"/> 1 tens and 6 ones</p> <p><input type="radio"/> 2 tens and 16 ones ***</p> <p><input type="radio"/> 3 tens and 16 ones</p> <p><input type="radio"/> 4 tens and 6 ones</p> |
| <p style="text-align: right;">(1C)</p> <p>11. What is another name for 6 tens and 10 ones?</p> <p><input type="radio"/> 16</p> <p><input type="radio"/> 61</p> <p><input type="radio"/> 70 ***</p> <p><input type="radio"/> 71</p>                       | <p style="text-align: right;">(1C)</p> <p>15. Which means the same as 2 tens and 17 ones?</p> <p><input type="radio"/> 27</p> <p><input type="radio"/> 37 ***</p> <p><input type="radio"/> 217</p> <p><input type="radio"/> 307</p>  |

|   |   |
|---|---|
| <p style="text-align: right;">(1D)</p> <p>16. What is the value of 2 in the number 28?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 20 ***</p> <p><input type="radio"/> 80</p>      | <p style="text-align: right;">(1D)</p> <p>20. What is the value of 7 in the number 847?</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 7 ***</p> <p><input type="radio"/> 12</p> <p><input type="radio"/> 19</p>                             |
| <p style="text-align: right;">(1D)</p> <p>17. What is the value of 3 in the number 93?</p> <p><input type="radio"/> 3000</p> <p><input type="radio"/> 300</p> <p><input type="radio"/> 30</p> <p><input type="radio"/> 3 ***</p>  | <p style="text-align: right;">(1D)</p> <p>21. In which number does the tens place have the <b>greatest</b> value?</p> <p><input type="radio"/> 89</p> <p><input type="radio"/> 47</p> <p><input type="radio"/> 68</p> <p><input type="radio"/> 90 ***</p> |
| <p style="text-align: right;">(1D)</p> <p>18. What is the value of 6 in the number 460?</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 60 ***</p> <p><input type="radio"/> 600</p> <p><input type="radio"/> 6000</p> | <p style="text-align: right;">(1D)</p> <p>22. In which number does the tens place have the <b>least</b> value?</p> <p><input type="radio"/> 98</p> <p><input type="radio"/> 74</p> <p><input type="radio"/> 86</p> <p><input type="radio"/> 59 ***</p>    |
| <p style="text-align: right;">(1D)</p> <p>19. What is the value of 9 in the number 925?</p> <p><input type="radio"/> 900 ***</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 9</p>    | <p style="text-align: right;">(1D)</p> <p>23. In which number does the ones place have the <b>least</b> value?</p> <p><input type="radio"/> 89</p> <p><input type="radio"/> 47</p> <p><input type="radio"/> 68</p> <p><input type="radio"/> 90 ***</p>    |

|  |   |
|--|---|
| <p style="text-align: right;">(1D)</p> <p>24. In which number does the ones place have the <b>greatest</b> value?</p> <p><input type="radio"/> 25</p> <p><input type="radio"/> 86</p> <p><input type="radio"/> 42</p> <p><input type="radio"/> 19 ***</p>      | <p style="text-align: right;">(1D)</p> <p>28. In which number does the hundreds place have the <b>greatest</b> value?</p> <p><input type="radio"/> 298</p> <p><input type="radio"/> 531</p> <p><input type="radio"/> 486</p> <p><input type="radio"/> 673 ***</p> |
| <p style="text-align: right;">(1D)</p> <p>25. In which number does the tens place have the <b>greatest</b> value?</p> <p><input type="radio"/> 163</p> <p><input type="radio"/> 980 ***</p> <p><input type="radio"/> 439</p> <p><input type="radio"/> 657</p>  | <p style="text-align: right;">(1D)</p> <p>29. In which number does the ones place have the <b>least</b> value?</p> <p><input type="radio"/> 123</p> <p><input type="radio"/> 321 ***</p> <p><input type="radio"/> 246</p> <p><input type="radio"/> 642</p>        |
| <p style="text-align: right;">(1D)</p> <p>26. In which number does the hundreds place have the <b>least</b> value?</p> <p><input type="radio"/> 358</p> <p><input type="radio"/> 509</p> <p><input type="radio"/> 287</p> <p><input type="radio"/> 199 ***</p> | <p style="text-align: right;">(1D)</p> <p>30. In which number does the tens place have the <b>least</b> value?</p> <p><input type="radio"/> 290</p> <p><input type="radio"/> 608 ***</p> <p><input type="radio"/> 472</p> <p><input type="radio"/> 913</p>        |
| <p style="text-align: right;">(1D)</p> <p>27. In which number does the ones place have the <b>greatest</b> value?</p> <p><input type="radio"/> 407 ***</p> <p><input type="radio"/> 982</p> <p><input type="radio"/> 235</p> <p><input type="radio"/> 864</p>  | <p style="text-align: right;">(1D)</p> <p>31. The value of 42 would change by how much if the 2 were replaced by a 6?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 4 ***</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 8</p>         |

|  |   |
|--|---|
| <p style="text-align: right;">(1D)</p> <p>32. The value of 87 would change by how much if 3 replaced 7?</p> <p><input type="radio"/> 4 ***</p> <p><input type="radio"/> 40</p> <p><input type="radio"/> 400</p> <p><input type="radio"/> 4000</p>          | <p style="text-align: right;">(1D)</p> <p>36. The value of 472 would change by how much if 9 replaced the 2?</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 7 ***</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 700</p>     |
| <p style="text-align: right;">(1D)</p> <p>33. The value of 259 would change by how much if 3 replaced 2?</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 10</p> <p><input type="radio"/> 100 ***</p> <p><input type="radio"/> 1000</p>         | <p style="text-align: right;">(1D)</p> <p>37. The value of 825 would change by how much if 2 were replaced by 0?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 20 ***</p> <p><input type="radio"/> 100</p> |
| <p style="text-align: right;">(1D)</p> <p>34. The value of 831 would change by how much if the 3 were replaced by 7?</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 70</p> <p><input type="radio"/> 40 ***</p> | <p style="text-align: right;">(1D)</p> <p>38. The value of 963 would change by how much if 1 replaced 3?</p> <p><input type="radio"/> 2 ***</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 200</p> <p><input type="radio"/> 2000</p>      |
| <p style="text-align: right;">(1D)</p> <p>35. The value of 628 would change by how much if 5 replaced the 6?</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 10</p> <p><input type="radio"/> 100 ***</p> <p><input type="radio"/> 1000</p>     |   |

ANSWERS Part 2

|  |   |
|--|---|
| <p style="text-align: right;">(2A)</p> <p>1. Which picture shows 121?</p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> | <p style="text-align: right;">(2A)</p> <p>2. Which number is shown by the blocks in this picture?</p> <p></p> <p><input type="radio"/> 531</p> <p><input type="radio"/> 153</p> <p><input type="radio"/> 315</p> <p><input type="radio"/> 135 ***</p> |
|  | <p style="text-align: right;">(4C)</p> <p>3. Ellen has 27 ribbons for her hair. This number is <b>closest to</b></p> <p><input type="radio"/> 10</p> <p><input type="radio"/> 15</p> <p><input type="radio"/> 20</p> <p><input type="radio"/> 30 ***</p>  |
|  | <p style="text-align: right;">(4C)</p> <p>4. Andrew weighs 92 pounds. This number is <b>about</b></p> <p><input type="radio"/> 70</p> <p><input type="radio"/> 80</p> <p><input type="radio"/> 90 ***</p> <p><input type="radio"/> 100</p>  |

|  |  |
|--|--|
| <p style="text-align: right;">(4C)</p> <p>5. A sailfish can swim 68 miles in one hour. This number is</p> <ul style="list-style-type: none"><li><input type="radio"/> a little less than 60</li><li><input type="radio"/> a little more than 60</li><li><input type="radio"/> a little less than 70 ***</li><li><input type="radio"/> a little more than 70</li></ul>  | <p style="text-align: right;">(5B)</p> <p>8. There were 18 pencils in a box. Sue took out 2 pencils. To find out how many pencils are still in the box, you could</p> <ul style="list-style-type: none"><li><input type="radio"/> add 18 and 2</li><li><input type="radio"/> subtract 2 from 18 ***</li><li><input type="radio"/> multiply 2 by 18</li><li><input type="radio"/> divide 18 by 2</li></ul>  |
| <p style="text-align: right;">(4C)</p> <p>6. Taylor's favorite number is 33. This number is <b>a little</b></p> <ul style="list-style-type: none"><li><input type="radio"/> less than 30</li><li><input type="radio"/> more than 30 ***</li><li><input type="radio"/> less than 40</li><li><input checked="" type="radio"/> more than 40</li></ul>   | <p style="text-align: right;">(5B)</p> <p>9. My street has 10 white houses and 5 yellow houses. Which number sentence shows how many more white houses there are than yellow houses?</p> <ul style="list-style-type: none"><li><input type="radio"/> <math>10 \times 5 = \square</math></li><li><input type="radio"/> <math>10 - 5 =</math></li><li><input type="radio"/> <math>10 + 5 = \square</math></li><li><input type="radio"/> <math>10 \div 5 =</math></li></ul> |
| <p style="text-align: right;">(5B)</p> <p>7. Jackie talked on the phone for 12 minutes on Monday. She talked for 6 minutes on Tuesday. Which number sentence can you use to find the total number of minutes Jackie talked on the phone?</p> <ul style="list-style-type: none"><li><input type="radio"/> <math>12 \times 6 =</math></li><li><input type="radio"/> <math>12 - 6 = \square</math></li><li><input type="radio"/> <math>12 + 6 = \square</math> ***</li><li><input type="radio"/> <math>12 \div 6 =</math></li></ul> | <p style="text-align: right;">(5B)</p> <p>10. The lunch count said that 58 third graders bought hot lunch. Also, 39 third graders had cold lunch. To find out how many children ate lunch that day, you should</p> <ul style="list-style-type: none"><li><input type="radio"/> divide 58 by 39</li><li><input type="radio"/> add 58 and 39 ***</li><li><input type="radio"/> multiply 38 by 59</li><li><input type="radio"/> subtract 38 from 59</li></ul>               |

11. Write a story problem that can be solved using the number sentence (5C)

$$14 - 6 = \square .$$

Take-Away Model: Patti had 14 rare stamps, each one worth thousands and thousands of dollars. She sold 6 of the stamps to pay off her blackmailer, who knew about her secret love nest hide-away in Hoboken, New Jersey. How many stamps does she still have left (and how many other secrets does our little Patti have) ?

Comparison Model: Patti had 14 rare stamps (yeah, yeah – we know: worth big bucks). Angela had only 6 rare stamps (which annoyed Angela tremendously since she was Patti’s boss.) How many more rare stamps does Patti have than Angela?

Missing Addend Model: Patti had 14 rare stamps. Angela had 6 rare stamps. How many rare stamps does Angela have to beg, borrow, or steal to have as many rare stamps as Patti does?

Combined Model: Patti has 14 rare stamps. She hid 6 of them in her love nest in Hoboken. The rest are buried in the Okefenokee Swamp. How many are buried in the Okefenokee Swamp?

12. Solve this problem. (7A)

$$\begin{array}{r} 45 \\ + 23 \\ \hline \end{array}$$

- 22  
 28  
 68 \*\*\*  
 77

14. Solve this problem. (7A)

$$\begin{array}{r} 57 \\ - 32 \\ \hline \end{array}$$

- 25 \*\*\*  
 34  
 85  
 89

13. Solve this problem. (7A)

$$46 + 21 =$$

- 13  
 25  
 58  
 67 \*\*\*

15. Solve this problem. (7A)

$$55 - 24 =$$

- 13  
 31 \*\*\*  
 89  
 97

16. Solve this problem. (7B)

$$\begin{array}{r} 38 \\ + 26 \\ \hline \end{array}$$

- 54
- 56
- 62
- 64 \*\*\*

(9AB)

19. Jean had 45 carrot sticks. Andrew had 21 carrot sticks. How many carrot sticks do they have in all?

- 23
- 26
- 66 \*\*\*
- 93

17. Solve this problem. (7B)

$$49 + 8 =$$

- 43
- 49
- 76
- 94

(9A/B)

20. Red roses cost 98¢ each. Yellow roses cost 85¢ each. How much more money do red roses cost than yellow roses?

- 13¢ \*\*\*
- 40¢
- 60¢
- 63¢

(9A/B)

18. The third graders saved 54 pennies and 18 nickels. The fourth graders saved 13 nickels and 28 pennies. How many pennies were saved?

- 31
- 41
- 72
- 82 \*\*\*

(9A/B)

21. Sasha has 45 gold stars. She also has 12 silver stars. How many stars does she have altogether?

- 37
- 55
- 57 \*\*\*
- 66

(9A/B)

22. Andy bought 48 fish for his tank. He gave 25 fish to his brother. How many fish did he keep?

- 23 \*\*\*
- 43
- 63
- 73

(9A/B)

23. Linda has 23 baseball cars. Olivia has 41 baseball cards. Rachel has 22 gel pens. How many baseball cards do the girls have altogether?

- 46
- 61
- 64 \*\*\*
- 86

(10A)

24. Luis needs to add 68 and 29. Which of the following would be **best** for Luis to use to **estimate** the sum?

- $60 + 20$
- $60 + 30$
- $70 + 20$
- $70 + 30$  \*\*\*

|                        |
|------------------------|
| $68 + 29$<br>$70 + 30$ |
|------------------------|

(10A)

25. Angela needs to subtract 22 from 81. Which of the following would be **best** for Angela to use to **estimate** the **difference**?

- $80 + 20$  \*\*\*
- $80 + 30$
- $90 + 20$
- $90 + 30$

|                        |
|------------------------|
| $81 - 22$<br>$80 - 20$ |
|------------------------|

(10A)

26. Andrew bought a new wheel for his bike for \$28.95. He gave the clerk \$50. Which of the following would be **best** for Andrew to use to **estimate** his change?

- $\$50 - \$20$
- $\$20 - \$50$
- $\$50 - \$30$  \*\*\*
- $\$30 - \$50$

|                        |
|------------------------|
| $50 - 28$<br>$50 - 30$ |
|------------------------|

(10A)

27. Mrs. Dea drove 236 miles last weekend. She drove 415 miles this weekend. Which of the following would be **best** for Mrs. Dea to use to **estimate** the difference in miles?

- $400 - 200$  \*\*\*
- $500 - 200$
- $400 - 300$
- $500 - 300$

|                            |
|----------------------------|
| $415 - 236$<br>$400 - 200$ |
|----------------------------|

(10A)

28. Jacky bought a new book for \$29.98 and a small TV set for \$79.85. Which of the following would be **best** for Jacky to use to **estimate** the total cost?

- \$20 + \$70
- \$20 + \$80
- \$30 + \$70
- \$30 + \$80 \*\*\*

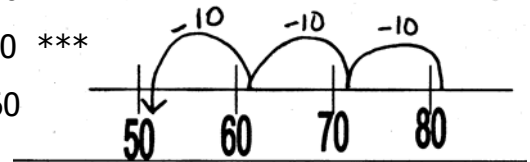
|                        |
|------------------------|
| $29 + 79$<br>$30 + 80$ |
|------------------------|

(11A)

31. Joan read 82 pages in her book. Terri read 29 pages in her book. **About** how many more pages did Joan read than Terri?

- 30
- 40
- 50 \*\*\*
- 60

|  |
|--|
| $82 \rightarrow 82$<br>$29 \rightarrow \underline{30}$<br>$52$ |
|--|



(10A)

29. Jorge has 297 gold stars. He wants 821. Which of the following would be **best** for Jorge to use to **estimate** how many more stars he needs?

- 800 - 200
- 900 - 200
- 800 - 300 \*\*\*
- 900 - 300

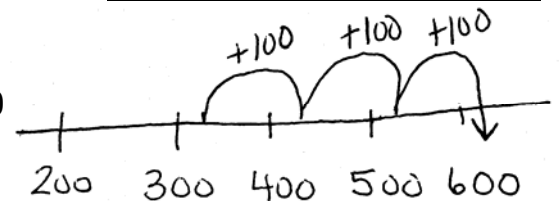
|                            |
|----------------------------|
| $821 - 297$<br>$800 - 300$ |
|----------------------------|

(11A)

32. Kim picked 328 strawberries. Li picked 298 strawberries. **About** how many strawberries did the two girls pick?

- 500
- 600 \*\*\*
- 700
- 800

|  |
|--|
| <p>Front End with Adjustment:<br/> <math>300 + 200 + 100</math> (from the 98) + 28 = 628</p> |
|--|



(11A)

30. The first graders built a tower with 321 blocks. The second graders used 395 blocks. **About** how many blocks were used in all?

- less than 500
- between 650 and 750 \*\*\*
- between 750 and 850
- more than 850

|   |
|---|
| $321 \rightarrow 321$<br>$395 \rightarrow \underline{400}$<br>$721$ |
|---|

(11A)

33. There were 49 children absent from school on Monday. On Tuesday there were 23 children absent. **About** how many children were absent altogether?

- a little less than 60
- a little more than 60
- a little less than 70
- a little more than 70 \*\*\*

|   |
|---|
| $49 \rightarrow 50$<br>$23 \rightarrow 23$<br>Total: about 73 |
|---|

(11A)

34. In May 72 first graders went on a field trip. Only 19 kindergarteners went on a field trip in June. **About** how many more children went on a trip in May than in June?

- a little less than 50
- a little more than 50 \*\*\*
- a little less than 60
- a little more than 60

(11A)

37. The Pizza Palace sold 261 pizzas on Monday. It sold 598 pizzas on Friday. **About** how many pizzas were sold in all?

- 850
- 860 \*\*\*
- 870
- 880

$$\begin{array}{r} 261 \rightarrow 260 \\ 598 \rightarrow \underline{600} \\ \quad \quad 860 \end{array}$$

(11A)

35. Miguel bought 5 baseballs ranging in price from \$3 to \$8. How much money could he have spent on baseballs altogether?

- \$30 \*\*\*
- \$50
- \$70
- \$90

$$\begin{array}{r} 3 \quad \quad 8 \\ 3 \quad \quad 8 \\ 3 \quad \quad 8 \\ 3 \quad \quad 8 \\ \underline{3} \quad \quad \underline{8} \\ 15 \quad \leftarrow \quad \rightarrow \quad 40 \end{array}$$

(11A)

38. One city truck plowed snow on 612 miles of roads today. Another truck plowed snow on 279 miles of road. **About** how many more miles did the first truck plow than the second truck?

- 200
- 300 \*\*\*
- 400
- 500

$$\begin{array}{l} 612 \rightarrow 612 + 20 = 632 \\ 279 \rightarrow 280 + 20 = \underline{300} \\ 332 \end{array}$$

(11A)

36. Lisa was counting the classrooms in a school. The school had 3 floors. On each floor there were between 5 and 10 classrooms. How many classrooms could be in the school?

- 20 \*\*\*
- 40
- 60
- 80

$$\begin{array}{r} 5 \quad \quad 10 \\ 5 \quad \quad 10 \\ \underline{5} \quad \quad \underline{10} \\ 15 \quad \quad 30 \end{array}$$

(25A)

Name \_\_\_\_\_ Date \_\_\_\_\_

Sally makes and sells sweaters for dolls. The sweaters have either 3 buttons or 5 buttons on them. This chart shows the cost of the sweaters.

| SWEATERS COST     |        |
|-------------------|--------|
| 3-Button Sweaters | \$2.50 |
| 5-Button Sweaters | \$4.00 |

- Sally wants to sell at least \$25 worth of sweaters.
- She must sell at least 1 of each type of sweater.
- Show two different ways Sally could make at least \$25.
- Show the total cost of all the sweaters sold.
- Show the types of sweaters sold.
- Show your work.

One Strategy: table

| sweater price | sub totals |
|---------------|------------|
| 2.50          | 2.50       |
| 2.50          | 5.00       |
| 2.50          | 7.50       |
| 2.50          | 10.00      |
| 4.00          | 14.00      |
| 4.00          | 18.00      |
| 4.00          | 22.00      |
| 4.00          | 26.00      |

You may fill in the charts to help you.

|                   | Cost of 1 Sweater | Number of Sweaters | Cost of Sweaters |                   | Cost of 1 Sweater | Number of Sweaters | Cost of Sweaters |
|-------------------|-------------------|--------------------|------------------|-------------------|-------------------|--------------------|------------------|
| 3-button sweaters | \$2.50            | 10                 | \$25.00          | 3-button sweaters | \$2.50            | 1                  | \$2.50           |
| 5-button sweaters | \$4.00            | 1                  | 4.00             | 5-button sweaters | \$4.00            | 10                 | 40.00            |
| Totals            |                   | 11                 | \$29.00          | Totals            |                   | 11                 | \$42.50          |

One strategy:  
Keep adding one sweater until you reach \$25.

Choose the price that is easier for you to keep adding.

Then add in 1 more of the other price.

|                   | Cost of 1 Sweater | Number of Sweaters | Cost of Sweaters |                   | Cost of 1 Sweater | Number of Sweaters | Cost of Sweaters |
|-------------------|-------------------|--------------------|------------------|-------------------|-------------------|--------------------|------------------|
| 3-button sweaters | \$2.50            | 4                  | \$10.00          | 3-button sweaters | \$2.50            | 2                  | \$5.00           |
| 5-button sweaters | \$4.00            | 4                  | 16.00            | 5-button sweaters | \$4.00            | 5                  | 20.00            |
| Totals            |                   | 11                 | \$26/00          | Totals            |                   | 11                 | \$25.00          |

One possible strategy: Keep adding one of each sweater until you get \$25 or more:

|              |               |              |               |                     |
|--------------|---------------|--------------|---------------|---------------------|
| \$ 2.50      | \$ 2.50       | 2.50         | 2.50          | = 4 sweaters (\$10) |
| <u>+4.00</u> | <u>+4.00</u>  | <u>+4.00</u> | <u>+4.00</u>  | = 4 sweaters (\$16) |
| \$ 6.50      | 6.50          | 6.50         | 6.50          |                     |
| Subtotals    | 6.50          | 13.00        | 19.50         |                     |
|              | <u>+ 6.50</u> | <u>+6.50</u> | <u>+6.50</u>  |                     |
|              | 13.00         | 19.50        | 26.00 = TOTAL |                     |