

Using the Standard Algorithm to Subtract Greater Numbers

Name: _____

Estimate. Circle all the problems with differences between 30,000 and 60,000. Then find the differences of only the circled problems.

$$\begin{array}{r} \text{1} \quad 95,217 \\ - 39,871 \\ \hline \end{array}$$

$$\begin{array}{r} \text{2} \quad 62,554 \\ - 31,618 \\ \hline \end{array}$$

$$\begin{array}{r} \text{3} \quad 92,023 \\ - 71,578 \\ \hline \end{array}$$

$$\begin{array}{r} \text{4} \quad 84,724 \\ - 43,951 \\ \hline \end{array}$$

$$\begin{array}{r} \text{5} \quad 56,417 \\ - 24,009 \\ \hline \end{array}$$

$$\begin{array}{r} \text{6} \quad 71,677 \\ - 13,197 \\ \hline \end{array}$$

$$\begin{array}{r} \text{7} \quad 99,902 \\ - 33,227 \\ \hline \end{array}$$

$$\begin{array}{r} \text{8} \quad 87,591 \\ - 46,280 \\ \hline \end{array}$$

$$\begin{array}{r} \text{9} \quad 90,434 \\ - 51,533 \\ \hline \end{array}$$

$$\begin{array}{r} \text{10} \quad 78,282 \\ - 40,983 \\ \hline \end{array}$$

$$\begin{array}{r} \text{11} \quad 71,731 \\ - 61,320 \\ \hline \end{array}$$

$$\begin{array}{r} \text{12} \quad 50,118 \\ - 18,306 \\ \hline \end{array}$$

$$\begin{array}{r} \text{13} \quad 86,496 \\ - 54,101 \\ \hline \end{array}$$

$$\begin{array}{r} \text{14} \quad 59,176 \\ - 17,222 \\ \hline \end{array}$$

$$\begin{array}{r} \text{15} \quad 89,971 \\ - 11,499 \\ \hline \end{array}$$

16 Use estimation and addition to check one of your answers. Show your work.

17 How does checking with addition compare with checking using estimation?

Multiplication in Word Problems

Name: _____

Use a strategy of your choice to solve each problem.

- 1** The library has 5 mystery books on a shelf. It has 4 times as many fiction books on another shelf. How many fiction books are on the shelf?

There are _____ fiction books on the shelf.

- 3** Violet has 3 markers. She has 6 times as many colored pencils as markers. How many colored pencils does she have?

Violet has _____ colored pencils.

- 5** Tasha used 8 tomatoes to make salsa. She used 4 times as many tomatoes to make sauce. How many tomatoes did Tasha use to make sauce?

Tasha used _____ tomatoes to make sauce.

- 7** There are 9 school buses in the parking lot. There are 6 times as many cars as school buses in the parking lot. How many cars are in the parking lot?

There are _____ cars in the parking lot.

- 2** Paul runs 2 laps around the gym. Carrie runs 6 times as many laps as Paul. How many laps does Carrie run?

Carrie runs _____ laps.

- 4** Owen draws 7 comics in April. He draws 3 times as many comics in May. How many comics does Owen draw in May?

Owen draws _____ comics in May.

- 6** There are 7 pear trees on a farm. There are 7 times as many apple trees as pear trees. How many apple trees are on the farm?

There are _____ apple trees.

- 8** There are 8 vases at an art show. There are 9 times as many paintings as vases at the art show. How many paintings are at the art show?

There are _____ paintings at the art show.

- 9** Write and solve a word problem for this equation: $5 \times 6 = ?$

Modeling Multi-Step Problems

Name: _____

Write an equation to represent each problem. Show your work.

- 1** The Lopez family goes to the movies. They buy 2 adult tickets for \$6 each and 3 child tickets for \$4 each. Write an equation to represent how much money the family spends on movie tickets, t .
- 2** Grace earns \$5 each time she walks her neighbor's dog. She walks the dog 5 times in one week. Then she spends \$7 on a book and \$9 on a building set. Write an equation to represent how much money Grace has left, m .
- 3** During the basketball game, Mika makes 3 baskets worth 2 points each, 2 baskets worth 3 points each, and 2 free throws worth 1 point each. Write an equation to represent how many points Mika scores, p .
- 4** Will has 20 pounds of apples. He makes 2 batches of applesauce that use 4 pounds each, one batch of apple butter that uses 6 pounds, and he uses 3 pounds to make juice. Write an equation to represent how many pounds of apples Will has left, p .
- 5** What strategies did you use to write an equation?
- 6** Is there another way you could write one of your equations? Could you write it as two equations? Explain.

Solving Multi-Step Problems

Name: _____

Write and solve an equation for each problem. Show your work.

- 1** Tasha spends 25 minutes reading on Wednesday night. She spends 17 more minutes reading on Thursday than she did on Wednesday. Write and solve an equation to find how many minutes Tasha spent reading on Wednesday and Thursday nights.

Tasha spent _____ minutes reading.

- 2** Erik has 2 bags of bird seed. One bag has 10 pounds of seed, and the other bag has 8 pounds of seed. He fills 7 bird feeders with 2 pounds each. Write and solve an equation to find how many pounds of bird seed are left.

There are _____ pounds left.

- 3** There are 15 boys and 19 girls in math club. The tables in Mrs. Miller's classroom seat 4 students each. Write and solve an equation to find how many tables Mrs. Miller will need.

Mrs. Miller will need _____ tables.

- 4** Frankie earns \$5 each time he babysits his little sister. He has saved \$30. Frankie wants to save \$52 to buy a new skateboard. Write and solve an equation to find how many more times Frankie will need to babysit.

Frankie will need to babysit _____ more times.

- 5** How can you estimate to check one of your answers? Show your work.

Multiplying a Three-Digit Number by a One-Digit Number

Name: _____

Find the product.

1 $500 \times 4 =$ _____

$501 \times 4 =$ _____

$506 \times 4 =$ _____

2 $300 \times 2 =$ _____

$299 \times 2 =$ _____

$298 \times 2 =$ _____

3 $400 \times 3 =$ _____

$405 \times 3 =$ _____

$410 \times 3 =$ _____

4 $499 \times 6 =$ _____

5 $706 \times 3 =$ _____

6 $195 \times 5 =$ _____

7 What pattern do you notice in problem 2? How could it help you solve a problem such as 297×2 ?

8 Choose problem 4, 5, or 6. Explain how you could check your answer.

Multiplying a Four-Digit Number by a One-Digit Number

Name: _____

Estimate. Circle all the problems that will have products between 18,000 and 32,000. Then find the exact products of only the problems you circled. Show your work.

1 $8,491 \times 2 =$ _____

2 $6,148 \times 4 =$ _____

3 $7,062 \times 5 =$ _____

4 $4,362 \times 5 =$ _____

5 $1,789 \times 8 =$ _____

6 $2,206 \times 9 =$ _____

7 $7,218 \times 4 =$ _____

8 $9,821 \times 3 =$ _____

9 $4,762 \times 6 =$ _____

10 $6,739 \times 6 =$ _____

11 $7,964 \times 4 =$ _____

12 $3,618 \times 7 =$ _____

13 What strategies did you use to solve the problems? Explain.

Multiplying by Two-Digit Numbers

Name: _____

Estimate each multiplication problem to check if the student's answer is reasonable. If not, cross out the answer and write the correct answer.

Multiplication Problems	Student Answers
14×17	2,380 238 Estimate: $14 \times 20 = 280$
15×19	285
21×18	3,078
16×13	28

Multiplying by Two-Digit Numbers *continued*

Name: _____

Multiplication Problems	Student Answers
13×31	403
18×17	3,056
21×15	3,015
12×22	2,604

1 How does estimating a multiplication problem help you know if an answer is reasonable?