

Name _____

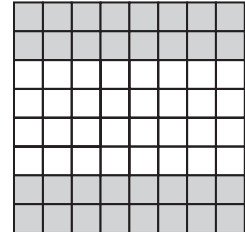
**Problem Solving • Multistep
Multiplication Problems**



COMMON CORE STANDARD—4.OA.3
Use the four operations with whole numbers to solve problems.

Solve each problem.

1. A community park has 6 tables with a chessboard painted on top. Each board has 8 rows of 8 squares. When a game is set up, 4 rows of 8 squares on each board are covered with chess pieces. If a game is set up on each table, how many total squares are NOT covered by chess pieces?



$$4 \times 8 = 32$$

$$32 \times 6 = \square$$

192 squares

2. Jonah and his friends go apple picking. Jonah fills 5 baskets. Each basket holds 15 apples. If 4 of Jonah's friends pick the same amount as Jonah, how many apples do Jonah and his friends pick in all? Draw a diagram to solve the problem.

3. There are 6 rows of 16 chairs set up for the third-grade play. In the first 4 rows, 2 chairs on each end are reserved for teachers. The rest of the chairs are for students. How many chairs are there for students?

Name _____

Multiply 2-Digit Numbers with Regrouping



COMMON CORE STANDARD—4.NBT.5
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then record the product.

1. Estimate: **150** 2. Estimate: _____ 3. Estimate: _____ 4. Estimate: _____

$$\begin{array}{r} 1 \\ 46 \\ \times 3 \\ \hline 138 \end{array}$$

$$\begin{array}{r} 32 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \$55 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 8 \\ \hline \end{array}$$

5. Estimate: _____ 6. Estimate: _____ 7. Estimate: _____ 8. Estimate: _____

$$\begin{array}{r} 37 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \$18 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ \times 8 \\ \hline \end{array}$$

9. Estimate: _____ 10. Estimate: _____ 11. Estimate: _____ 12. Estimate: _____

$$\begin{array}{r} 94 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \$79 \\ \times 8 \\ \hline \end{array}$$

Problem Solving



13. Sharon is 54 inches tall. A tree in her backyard is 5 times as tall as she is. The floor of her treehouse is at a height that is twice as tall as she is. What is the difference, in inches, between the top of the tree and the floor of the treehouse?

14. Mr. Diaz's class is taking a field trip to the science museum. There are 23 students in the class, and a student admission ticket is \$8. How much will the student tickets cost?

Name _____

Multiply 3-Digit and 4-Digit Numbers with Regrouping



COMMON CORE STANDARD—4.NBT.5
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then find the product.

1. Estimate: 4,000

$$\begin{array}{r} 1\ 2\ 2 \\ 1,467 \\ \times \quad 4 \\ \hline 5,868 \end{array}$$

2. Estimate: _____

$$\begin{array}{r} 5,339 \\ \times \quad 6 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} \$879 \\ \times \quad 8 \\ \hline \end{array}$$

4. Estimate: _____

$$\begin{array}{r} 3,182 \\ \times \quad 5 \\ \hline \end{array}$$

5. Estimate: _____

$$\begin{array}{r} 4,616 \\ \times \quad 3 \\ \hline \end{array}$$

6. Estimate: _____

$$\begin{array}{r} \$2,854 \\ \times \quad 9 \\ \hline \end{array}$$

7. Estimate: _____

$$\begin{array}{r} 7,500 \\ \times \quad 2 \\ \hline \end{array}$$

8. Estimate: _____

$$\begin{array}{r} 948 \\ \times \quad 7 \\ \hline \end{array}$$

9. Estimate: _____

$$\begin{array}{r} 1,752 \\ \times \quad 6 \\ \hline \end{array}$$

10. Estimate: _____

$$\begin{array}{r} 550 \\ \times \quad 9 \\ \hline \end{array}$$

11. Estimate: _____

$$\begin{array}{r} 6,839 \\ \times \quad 4 \\ \hline \end{array}$$

12. Estimate: _____

$$\begin{array}{r} \$9,614 \\ \times \quad 3 \\ \hline \end{array}$$

Problem Solving



13. Lafayette County has a population of 7,022 people. Columbia County's population is 8 times as great as Lafayette County's population. What is the population of Columbia County?
- _____

14. A seafood company sold 9,125 pounds of fish last month. If 6 seafood companies sold the same amount of fish, how much fish did the 6 companies sell last month in all?
- _____

Name _____

Solve Multistep Problems Using Equations



COMMON CORE STANDARD—4.OA.3
Use the four operations with whole numbers to solve problems.

Find the value of n .

1. $4 \times 27 + 5 \times 34 - 94 = n$

$108 + 5 \times 34 - 94 = n$

$108 + 170 - 94 = n$

$278 - 94 = n$

$184 = n$

2. $7 \times 38 + 3 \times 45 - 56 = n$

_____ = n

3. $6 \times 21 + 7 \times 29 - 83 = n$

_____ = n

4. $9 \times 19 + 2 \times 57 - 75 = n$

_____ = n

5. $5 \times 62 + 6 \times 33 - 68 = n$

_____ = n

6. $8 \times 19 + 4 \times 49 - 39 = n$

_____ = n

Problem Solving



7. A bakery has 4 trays with 16 muffins on each tray. The bakery has 3 trays of cupcakes with 24 cupcakes on each tray. If 15 cupcakes are sold, how many muffins and cupcakes are left?

8. Katy bought 5 packages of stickers with 25 stickers in each package. She also bought 3 boxes of markers with 12 markers in each box. If she receives 8 stickers from a friend, how many stickers and markers does Katy have now?
