

**MY Homework****Lesson 10****Multiply by Two-Digit Numbers****Homework Helper**Need help? [connectED.mcgraw-hill.com](http://connectED.mcgraw-hill.com)

Alicia lives in Nashville, Tennessee. Last year her family drove to Atlanta, Georgia, each month to visit her grandmother. Find the total distance they drove to visit her grandmother for the year.

Destination City From Nashville	Round-Trip Distance (mi)
Atlanta	498
Raleigh	1,080

Find  $498 \times 12$ .**Estimate**  $500 \times 10 = 5,000$ **1 Multiply the ones.**

$498 \times 2 = 996$

$$\begin{array}{r} 498 \\ \times 12 \\ \hline \end{array}$$

**2 Multiply the tens.**

$498 \times 10 = 4,980$

$$\begin{array}{r} 996 \\ + 4,980 \\ \hline 5,976 \end{array}$$

**3 Add.**

$996 + 4,980 = 5,976$

So, they drove a total of 5,976 miles for the year.

**Check** Compare to the estimate.  $5,976 \approx 5,000$ **Practice****Estimate. Then multiply. Use your estimate to check your answer.**

$$\begin{array}{r} 1. \quad 19 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 43 \\ \times 65 \\ \hline \end{array}$$

3.  $470 \times 56 = \underline{\hspace{2cm}}$



## Problem Solving

4. Ms. Jenkins was arranging chairs for a school awards assembly. Each row contained 15 chairs. If there were 21 rows, how many chairs had to be arranged?
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5. Leon earns \$14 an hour. How much does he earn in 4 weeks if he works 12 hours each week?
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- Mathematical PRACTICE**  **Use Math Tools** Without actually calculating, how much greater is the product of  $98 \times 50$  than the product of  $97 \times 50$ ?
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7. The table shows Katrina's prices for dog walking. If she walks 5 medium-sized dogs and 8 large-sized dogs for 12 weeks, how much will she earn?
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Dog Type	Cost Per Week (\$)
Small	10
Medium	12
Large	14



## Test Practice

8. Each day there are 12 tours at the glass factory. Twenty-eight people can go on a tour. How many people can tour the glass factory each day?
- (A) 236 people      (C) 336 people  
(B) 280 people      (D) 436 people