

# Homework & Practice 3-8

## Multiply 4-Digit by 1-Digit Numbers

### Another Look!

Find  $1,214 \times 7$ .



The steps below show how to multiply greater numbers.

#### Step 1

Multiply the ones.  
Regroup if necessary.

$$\begin{array}{r} \phantom{1,}^2 214 \\ \times \phantom{1,} 7 \\ \hline \phantom{1,} 8 \end{array}$$

#### Step 2

Multiply the tens.  
Add any extra tens.  
Regroup if necessary.

$$\begin{array}{r} \phantom{1,}^2 214 \\ \times \phantom{1,} 7 \\ \hline \phantom{1,} 98 \end{array}$$

#### Step 3

Multiply the hundreds. Add any extra hundreds.  
Regroup if necessary.

$$\begin{array}{r} \phantom{1,}^1 214 \\ \times \phantom{1,} 7 \\ \hline \phantom{1,} 498 \end{array}$$

#### Step 4

Multiply the thousands. Add any extra thousands.

$$\begin{array}{r} \phantom{1,}^1 214 \\ \times \phantom{1,} 7 \\ \hline \phantom{1,} 8,498 \end{array}$$

For **1–16**, find each product.

1.  $\begin{array}{r} 1,324 \\ \times \phantom{1,} 2 \\ \hline \end{array}$

2.  $\begin{array}{r} 5,618 \\ \times \phantom{1,} 7 \\ \hline \end{array}$

3.  $\begin{array}{r} 4,810 \\ \times \phantom{1,} 3 \\ \hline \end{array}$

4.  $\begin{array}{r} 9,018 \\ \times \phantom{1,} 6 \\ \hline \end{array}$

5.  $\begin{array}{r} 2,721 \\ \times \phantom{1,} 4 \\ \hline \end{array}$

6.  $\begin{array}{r} 7,183 \\ \times \phantom{1,} 2 \\ \hline \end{array}$

7.  $\begin{array}{r} 8,734 \\ \times \phantom{1,} 5 \\ \hline \end{array}$

8.  $\begin{array}{r} 6,451 \\ \times \phantom{1,} 7 \\ \hline \end{array}$

9.  $\begin{array}{r} 2,649 \\ \times \phantom{1,} 8 \\ \hline \end{array}$

10.  $\begin{array}{r} 1,273 \\ \times \phantom{1,} 5 \\ \hline \end{array}$

11.  $\begin{array}{r} 6,019 \\ \times \phantom{1,} 2 \\ \hline \end{array}$

12.  $\begin{array}{r} 4,867 \\ \times \phantom{1,} 7 \\ \hline \end{array}$

13.  $\begin{array}{r} 3,258 \\ \times \phantom{1,} 2 \\ \hline \end{array}$

14.  $\begin{array}{r} 4,307 \\ \times \phantom{1,} 4 \\ \hline \end{array}$

15.  $\begin{array}{r} 2,894 \\ \times \phantom{1,} 8 \\ \hline \end{array}$

16.  $\begin{array}{r} 6,113 \\ \times \phantom{1,} 9 \\ \hline \end{array}$

For **17–18**, use the table at the right.



Roller Coaster Length	
Coaster A	6,595 ft
Coaster B	6,072 ft
Coaster C	5,843 ft
Coaster D	5,600 ft

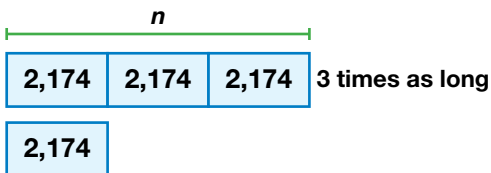
17. Bailey rode Coaster B four times. How many feet did she ride? What is your answer rounded to the nearest thousand?

18. Janna rode each of the four roller coasters listed in the table twice. How many feet of roller coaster did she ride?

19. The Appalachian Trail is 2,174 miles long. If a group of 7 people hike the entire trail, how many combined miles do they hike?

20. The Chisholm trail was approximately 800 miles long. If a cowboy walked the trail 9 times, about how many miles did the cowboy walk?

21. **MP.4 Model with Math** The Appalachian Trail is 2,174 miles long. About how long would a trail be if it were 3 times the length of the Appalachian Trail?



22. **Higher Order Thinking** Describe the mistakes in the solution below. Show the correct solution.

$$\begin{array}{r}
 1,892 \\
 \times \quad 4 \\
 \hline
 8 \\
 36 \\
 320 \\
 + 4,000 \\
 \hline
 4,364
 \end{array}$$

### Common Core Assessment

23. Show two different ways to solve the following problem. Each wheel on a roller coaster turns 3,999 times during the ride. How many times will each wheel turn during 2 rides?