

Homework & Practice 3-7

Multiply 2- and 3-Digit Numbers by 1-Digit Numbers

Another Look!



The steps below show one way to multiply 3-digit numbers by 1-digit numbers.

Step 1

Multiply the ones.
Regroup if necessary.

$$\begin{array}{r} 1 \\ 154 \\ \times 4 \\ \hline 6 \end{array}$$

Step 2

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

$$\begin{array}{r} 21 \\ 154 \\ \times 4 \\ \hline 16 \end{array}$$

Step 3

Multiply the hundreds.
Add any extra hundreds.

$$\begin{array}{r} 21 \\ 154 \\ \times 4 \\ \hline 616 \end{array}$$

For 1–16, find each product.

Remember to regroup if necessary.



1.
$$\begin{array}{r} 13 \\ \times 3 \\ \hline \square \square \end{array}$$

2.
$$\begin{array}{r} \square \\ 17 \\ \times 7 \\ \hline \square \square \square \end{array}$$

3.
$$\begin{array}{r} \square \\ 741 \\ \times 3 \\ \hline \square \square \square \square \end{array}$$

4.
$$\begin{array}{r} \square \square \\ 587 \\ \times 3 \\ \hline \square \square \square \square \end{array}$$

5.
$$\begin{array}{r} 413 \\ \times 6 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 625 \\ \times 6 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 36 \\ \times 5 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 731 \\ \times 9 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 88 \\ \times 5 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 52 \\ \times 8 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 352 \\ \times 3 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 159 \\ \times 5 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 164 \\ \times 5 \\ \hline \end{array}$$

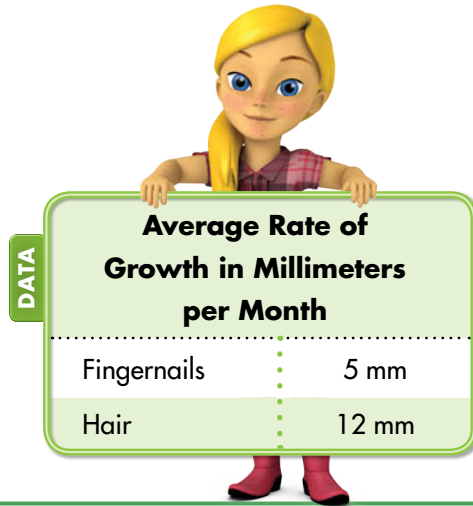
14.
$$\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 478 \\ \times 2 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 862 \\ \times 7 \\ \hline \end{array}$$

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

17. What is the average length fingernails will grow in 12 months?
18. How much longer will hair grow than fingernails in 6 months?



Average Rate of Growth in Millimeters per Month	
Fingernails	5 mm
Hair	12 mm

19. Derek rides in three motorcycle races. Each race is 150 miles. How many miles does Derek ride?

20. Walt averages 98 miles per hour in 4 races. If each race is 95 miles in length, how many miles did Walt drive in the races?

21. The Puerto Rico Trench has a depth of 30,246 feet. Write the numbers that are 10,000 less than and 10,000 greater than this number.

22. Which place value would you look at to compare 225,998 and 225,988?

23. **MP.3 Critique Reasoning** Martin multiplied 423 by 7 and said the product is 2,841. Do Martin's calculations make sense? Explain.

24. **Higher Order Thinking** Tyrone has 6 times as many marbles as Pam. Pam has 34 marbles. Louis has 202 marbles. Who has more marbles, Tyrone or Louis? Explain.

Common Core Assessment

25. Find the missing numbers in the multiplication problem. Write the missing numbers in the answer spaces at the right.

$$\begin{array}{r}
 \square \\
 651 \\
 \times \quad \quad 7 \\
 \hline
 \square, \square \square \square
 \end{array}$$