

Additional Practice 3-3

Multiply 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.



$$\begin{array}{r} 1. \quad 13 \\ \times 3 \\ \hline 39 \end{array}$$

$$\begin{array}{r} 2. \quad 4 \\ 17 \\ \times 7 \\ \hline 119 \end{array}$$

$$\begin{array}{r} 3. \quad 1 \\ 741 \\ \times 3 \\ \hline 2,223 \end{array}$$

$$\begin{array}{r} 4. \quad 22 \\ 587 \\ \times 3 \\ \hline 1,761 \end{array}$$

$$\begin{array}{r} 5. \quad 413 \\ \times 6 \\ \hline 2,478 \end{array}$$

$$\begin{array}{r} 6. \quad 625 \\ \times 6 \\ \hline 3,750 \end{array}$$

$$\begin{array}{r} 7. \quad 36 \\ \times 5 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 8. \quad 731 \\ \times 9 \\ \hline 6,579 \end{array}$$

$$\begin{array}{r} 9. \quad 88 \\ \times 5 \\ \hline 440 \end{array}$$

$$\begin{array}{r} 10. \quad 52 \\ \times 8 \\ \hline 416 \end{array}$$

$$\begin{array}{r} 11. \quad 352 \\ \times 3 \\ \hline 1,056 \end{array}$$

$$\begin{array}{r} 12. \quad 159 \\ \times 5 \\ \hline 795 \end{array}$$

$$\begin{array}{r} 13. \quad 164 \\ \times 5 \\ \hline 820 \end{array}$$

$$\begin{array}{r} 14. \quad 19 \\ \times 8 \\ \hline 152 \end{array}$$

$$\begin{array}{r} 15. \quad 478 \\ \times 2 \\ \hline 956 \end{array}$$

$$\begin{array}{r} 16. \quad 862 \\ \times 7 \\ \hline 6,034 \end{array}$$



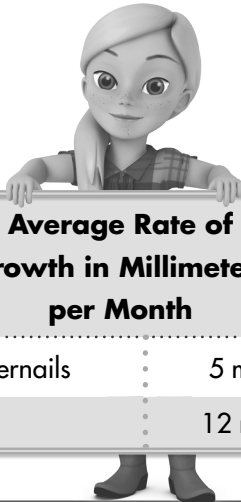
For **17–18**, use the table at the right.

- 17.** What is the average length fingernails will grow in 12 months?

60 mm

- 18.** How much longer will hair grow than fingernails in 6 months?

42 mm longer



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

- 19.** Derek rides in 3 motorcycle races. Each race is 150 miles. How many miles does Derek ride?

450 miles

- 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?

380 miles

- 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.

20,246; 40,246

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

Tens place

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

No; Sample answer: Martin may not have regrouped the tens and hundreds when multiplying. The correct answer is 2,961.

- 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.

Tyrone; Sample answer: $34 \times 6 = 204$. Tyrone has 204 marbles. $204 > 202$, so Tyrone has more marbles than Louis.

Assessment Practice

- 25.** Find the product.

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

4,557

- 26.** Find the product.

$$\begin{array}{r} 2,311 \\ \times 6 \\ \hline \end{array}$$

13,866