Key Concept and Vocabulary

$$
\begin{array}{r}
^{1} \\
13 \leftarrow \text{factors} \\
\times \quad 24 \\
\hline
52 \leftarrow \text{partial products} \\
+ \quad 260 \\
\hline
312 \leftarrow \text{product}
\end{array}
$$

Multiply.

Visual Model

	20	4
10	10×20	10×4
3	3×20	3×4

$$
\begin{array}{rl}
200 & 10 \times 20 \\
40 & 10 \times 4 \\
60 & 3 \times 20 \\
+ \quad 12 & 3 \times 4 \\
\hline
312 &
\end{array}
$$
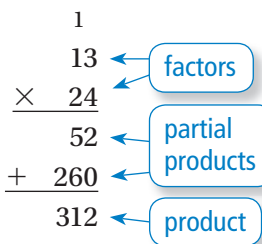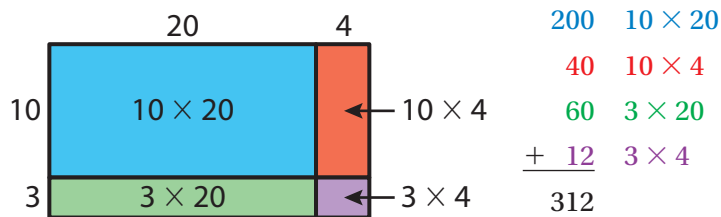
Skill Examples

1.
$$
\begin{array}{r}
^{5\,2} \\
263 \\
\times \quad 91 \\
\hline
263 \\
+ \quad 23{,}670 \\
\hline
23{,}933
\end{array}
$$

$263 \times 91 = 23{,}933$

2.
$$
\begin{array}{r}
^{2\,3} \\
7{,}056 \\
\times \quad 15 \\
\hline
35{,}280 \\
+ \quad 70{,}560 \\
\hline
105{,}840
\end{array}
$$

$7{,}056 \times 15 = 105{,}840$

Application Example

3. Find the area of the floor of a rectangular room that is 7 meters wide and 15 meters long.

$$
\begin{aligned}
\text{Area} &= (\text{length})(\text{width}) \\
&= 7 \times 15 \\
&= 105 \text{ square meters}
\end{aligned}
$$

The area is 105 square meters.

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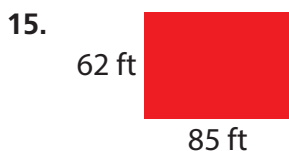*Check your answers at BigIdeasMath.com.*

Find the product.

4. $51 \times 6 = $ _____

5. $240 \times 2 = $ _____

6. $14 \times 17 = $ _____

7. $19 \times 21 = $ _____

8. $100 \times 30 = $ _____

9. $206 \times 17 = $ _____

10. $3{,}792 \times 5 = $ _____

11. $2{,}054 \times 41 = $ _____

12. $23{,}652 \times 9 = $ _____

13. $3{,}196 \times 41 = $ _____

14. $5 \times 309 \times 2 = $ _____

Find the area of the rectangle.

15.

62 ft

85 ft

Area = _____

16. 89 m

107 m

Area = _____

17. 36 in.

36 in.
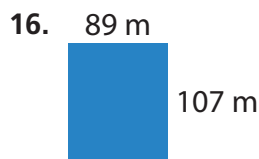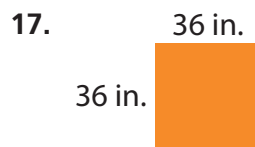
Area = _____

18. SCHOOL BUS Each school bus can carry a maximum of 50 passengers. What is the maximum number of passengers that 12 school buses can carry? _____

19. PAPER CUPS Each package contains 65 paper cups. You buy four packages. Do you have enough paper cups for 250 people to each have one? How do you know? _____

_____