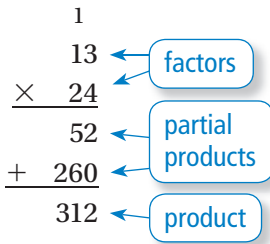


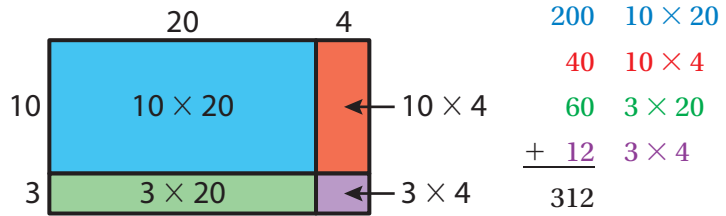
REVIEW: Multiplying Multi-Digit Numbers

Name _____

Key Concept and Vocabulary



Visual Model



Skill Examples

1.
$$\begin{array}{r} 52 \\ 263 \\ \times 91 \\ \hline 263 \\ + 23,670 \\ \hline 23,933 \end{array}$$

∴ $263 \times 91 = 23,933$

2.
$$\begin{array}{r} 23 \\ 7,056 \\ \times 15 \\ \hline 35,280 \\ + 70,560 \\ \hline 105,840 \end{array}$$

∴ $7,056 \times 15 = 105,840$

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.

PRACTICE MAKES PURR-FECT®



Check your answers at BigIdeasMath.com.

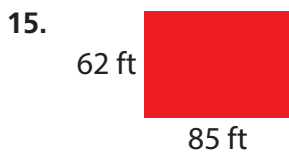
Find the product.

4. $51 \times 6 = \underline{306}$ 5. $240 \times 2 = \underline{480}$ 6. $14 \times 17 = \underline{238}$ 7. $19 \times 21 = \underline{399}$

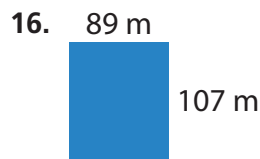
8. $100 \times 30 = \underline{3,000}$ 9. $206 \times 17 = \underline{3,502}$ 10. $3,792 \times 5 = \underline{18,960}$ 11. $2,054 \times 41 = \underline{84,214}$

12. $23,652 \times 9 = \underline{212,868}$ 13. $3,196 \times 41 = \underline{131,036}$ 14. $5 \times 309 \times 2 = \underline{3,090}$

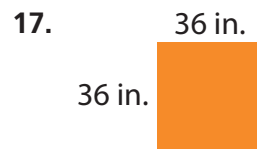
Find the area of the rectangle.



Area = $\underline{5,270 \text{ square feet}}$



Area = $\underline{9,523 \text{ square meters}}$



Area = $\underline{1,296 \text{ square inches}}$

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? $\underline{600 \text{ passengers}}$

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? _____

$\underline{\text{yes; You have } 65 \times 4 = 260 \text{ paper cups, which is greater than 250 people.}}$