

Independent Practice

Estimate. Circle whether the estimate is *greater than* or *less than* the actual product.

2.
$$\begin{array}{r} 28 \longrightarrow \\ \times 25 \longrightarrow \times \\ \hline \end{array}$$

greater than
less than

3.
$$\begin{array}{r} 43 \longrightarrow \\ \times 14 \longrightarrow \times \\ \hline \end{array}$$

greater than
less than

4.
$$\begin{array}{r} \$56 \longrightarrow \\ \times 37 \longrightarrow \times \\ \hline \end{array}$$

greater than
less than

5.
$$\begin{array}{r} 79 \longrightarrow \\ \times 55 \longrightarrow \times \\ \hline \end{array}$$

greater than
less than

6.
$$\begin{array}{r} \$91 \longrightarrow \\ \times 64 \longrightarrow \times \\ \hline \end{array}$$

greater than
less than

7.
$$\begin{array}{r} 94 \longrightarrow \\ \times 82 \longrightarrow \times \\ \hline \end{array}$$

greater than
less than

Estimate the product.

8. $23 \times 11 =$ _____

9. $35 \times 37 =$ _____

10. $48 \times 86 =$ _____

11. $53 \times 42 =$ _____

12. $67 \times 56 =$ _____

13. $73 \times 84 =$ _____

Algebra Use mental math to find the unknown number.

14. $20 \times a = 1,200$

15. $b \times 30 = 900$

16. $40 \times c = 2,400$

$a =$ _____

$b =$ _____

$c =$ _____



Problem Solving

Use the information in the table for Exercises 17–18. Write an equation to solve.

Green Darner Dragonfly Facts	
Average adult length	74 millimeters
Maximum length of nymph	55 millimeters

17. **Mathematical PRACTICE 4** **Model Math** Suppose 18 nymph dragonflies of maximum length are laid end to end. About how long would they span?

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ mm}$$

18. If 32 average adult dragonflies were laid end to end, about how long would they span?

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ mm}$$

Algebra Write an equation to solve.

19. The art room has 15 shelves of paint. Each shelf has 48 cans of paint. About how many cans of paint are there altogether?

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ cans of paint}$$

20. There are 12 millipedes that each measure 16 centimeters long. About how long would they measure if they were laid end to end?

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ cm}$$

My Work!

HOT Problems

21. **Mathematical PRACTICE 1** **Make a Plan** Identify two factors that have an estimated product of 2,000.

22. **? Building on the Essential Question** How does an estimated product relate to the actual product? Explain.

