

Name _____

Multiplication Patterns



COMMON CORE STANDARD—5.NBT.2
Understand the place value system.

Use mental math to complete the pattern.

1. $8 \times 3 = 24$

$(8 \times 3) \times 10^1 = \underline{240}$
 $(8 \times 3) \times 10^2 = \underline{2,400}$
 $(8 \times 3) \times 10^3 = \underline{24,000}$

2. $5 \times 6 = \underline{\hspace{2cm}}$

$(5 \times 6) \times 10^1 = \underline{\hspace{2cm}}$

$(5 \times 6) \times 10^2 = \underline{\hspace{2cm}}$

$(5 \times 6) \times 10^3 = \underline{\hspace{2cm}}$

3. $3 \times \underline{\hspace{2cm}} = 27$

$(3 \times 9) \times 10^1 = \underline{\hspace{2cm}}$

$(3 \times 9) \times 10^2 = \underline{\hspace{2cm}}$

$(3 \times 9) \times 10^3 = \underline{\hspace{2cm}}$

4. $\underline{\hspace{2cm}} \times 4 = 28$

$(7 \times 4) \times \underline{\hspace{2cm}} = 280$

$(7 \times 4) \times \underline{\hspace{2cm}} = 2,800$

$(7 \times 4) \times \underline{\hspace{2cm}} = 28,000$

5. $6 \times 8 = \underline{\hspace{2cm}}$

$(6 \times 8) \times 10^2 = \underline{\hspace{2cm}}$

$(6 \times 8) \times 10^3 = \underline{\hspace{2cm}}$

$(6 \times 8) \times 10^4 = \underline{\hspace{2cm}}$

6. $\underline{\hspace{2cm}} \times 4 = 16$

$(4 \times 4) \times 10^2 = \underline{\hspace{2cm}}$

$(4 \times 4) \times 10^3 = \underline{\hspace{2cm}}$

$(4 \times 4) \times 10^4 = \underline{\hspace{2cm}}$

Use mental math and a pattern to find the product.

7. $(2 \times 9) \times 10^2 = \underline{\hspace{2cm}}$

8. $(8 \times 7) \times 10^2 = \underline{\hspace{2cm}}$

9. $(9 \times 6) \times 10^3 = \underline{\hspace{2cm}}$

10. $(3 \times 7) \times 10^3 = \underline{\hspace{2cm}}$

11. $(5 \times 9) \times 10^4 = \underline{\hspace{2cm}}$

12. $(4 \times 8) \times 10^4 = \underline{\hspace{2cm}}$

13. $(8 \times 8) \times 10^3 = \underline{\hspace{2cm}}$

14. $(6 \times 4) \times 10^4 = \underline{\hspace{2cm}}$

15. $(5 \times 5) \times 10^3 = \underline{\hspace{2cm}}$

Problem Solving



16. The Florida Everglades welcomes about 2×10^3 visitors per day. Based on this, about how many visitors come to the Everglades per week?

17. The average person loses about 8×10^1 strands of hair each day. About how many strands of hair would the average person lose in 9 days?

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Multiply by 1-Digit Numbers



COMMON CORE STANDARD—5.NBT.5
Perform operations with multi-digit whole numbers and with decimals to hundredths.

Estimate. Then find the product.

1. Estimate: 3,600

$$\begin{array}{r} 15 \\ 416 \\ \times 9 \\ \hline 3,744 \end{array}$$

2. Estimate: _____

$$\begin{array}{r} 1,374 \\ \times 6 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} 726 \\ \times 5 \\ \hline \end{array}$$

4. Estimate: _____

$$\begin{array}{r} 872 \\ \times 3 \\ \hline \end{array}$$

5. Estimate: _____

$$\begin{array}{r} 2,308 \\ \times 9 \\ \hline \end{array}$$

6. Estimate: _____

$$\begin{array}{r} 1,564 \\ \times 5 \\ \hline \end{array}$$

Estimate. Then find the product.

7. 4×979

8. 503×7

9. $5 \times 4,257$

10. $6,018 \times 9$

11. 758×6

12. 3×697

13. $2,141 \times 8$

14. $7 \times 7,956$

Problem Solving



15. Mr. and Mrs. Dorsey and their three children are flying to Springfield. The cost of each ticket is \$179. Estimate how much the tickets will cost. Then find the exact cost of the tickets.

16. Ms. Tao flies roundtrip twice yearly between Jacksonville and Los Angeles on business. The distance between the two cities is 2,150 miles. Estimate the distance she flies for both trips. Then find the exact distance.

Name _____

Multiply by 2-Digit Numbers**COMMON CORE STANDARD—5.NBT.5***Perform operations with multi-digit whole numbers and with decimals to hundredths.***Estimate. Then find the product.**1. Estimate: 4,000

$$\begin{array}{r} 82 \\ \times 49 \\ \hline 738 \\ + 3280 \\ \hline 4,018 \end{array}$$

2. Estimate: _____

$$\begin{array}{r} 92 \\ \times 68 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} 396 \\ \times 37 \\ \hline \end{array}$$

4. 23×67 5. 86×33 6. 78×71

7. 309×29 8. 612×87 9. 476×72

Problem Solving

10. A company shipped 48 boxes of canned dog food. Each box contains 24 cans. How many cans of dog food did the company ship in all?

11. There were 135 cars in a rally. Each driver paid a \$25 fee to participate in the rally. How much money did the drivers pay in all?
