

# Patterns of Multiplication

You can use basic facts and patterns to help you multiply.

$2 \times 3 = 6$  basic fact

$4 \times 5 = 20$  basic fact

$20 \times 30 = 600$   
 ↑ 1 zero    ↙ 1 zero    ↘ 2 zeros

$40 \times 50 = 2,000$   
 ↑ 1 zero    ↙ 1 zero    ↘ 2 zeros

$20 \times 300 = 6,000$   
 ↑ 1 zero    ↙ 2 zeros    ↘ 3 zeros

$40 \times 500 = 20,000$   
 ↑ 1 zero    ↙ 2 zeros    ↘ 3 zeros

$20 \times 3,000 = 60,000$   
 ↑ 1 zero    ↙ 3 zeros    ↘ 4 zeros

$40 \times 5,000 = 200,000$   
 ↑ 1 zero    ↙ 3 zeros    ↘ 4 zeros

Complete the pattern.

1.  $4 \times 3 = \underline{\quad}$

2.  $7 \times 2 = \underline{\quad}$

$40 \times 30 = \underline{\quad}$

$70 \times 20 = \underline{\quad}$

$40 \times 300 = \underline{\quad}$

$70 \times 200 = \underline{\quad}$

$40 \times 3,000 = \underline{\quad}$

$70 \times 2,000 = \underline{\quad}$

3.  $5 \times 6 = \underline{\quad}$

4.  $8 \times 5 = \underline{\quad}$

$50 \times 60 = \underline{\quad}$

$80 \times 50 = \underline{\quad}$

$50 \times 600 = \underline{\quad}$

$80 \times 500 = \underline{\quad}$

$50 \times 6,000 = \underline{\quad}$

$80 \times 5,000 = \underline{\quad}$

Multiply. Use mental math.

5.  $3 \times 6 = \underline{\quad}$

6.  $30 \times 60 = \underline{\quad}$

7.  $30 \times 600 = \underline{\quad}$

8.  $4 \times 9 = \underline{\quad}$

9.  $40 \times 90 = \underline{\quad}$

10.  $40 \times 900 = \underline{\quad}$

11.  $80 \times 30 = \underline{\quad}$

12.  $700 \times 30 = \underline{\quad}$

13.  $20 \times 50 = \underline{\quad}$

14.  $300 \times 9 = \underline{\quad}$

15.  $80 \times 600 = \underline{\quad}$

16.  $70 \times 800 = \underline{\quad}$

17.  $30 \times 8,000 = \underline{\quad}$

18.  $2,000 \times 90 = \underline{\quad}$

19.  $4,000 \times 50 = \underline{\quad}$

20.  $70 \times 7,000 = \underline{\quad}$

21.  $7,000 \times 60 = \underline{\quad}$

22.  $90 \times 8,000 = \underline{\quad}$