SKILL 12: Multiplying Multiples of Ten
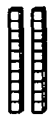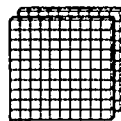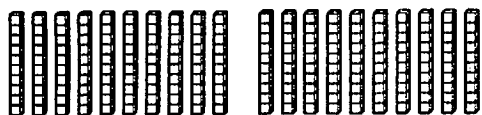
You can use place-value blocks and patterns to multiply.

$2 \times 10 = 2$ tens $= 20$

$20 \times 10 = 20$ tens $= 2$ hundreds $= 200$
You can continue the pattern.
$200 \times 10 = 200$ tens $= 2$ thousands $= 2,000$

Example

Find 400×70.

Count the number of ending zeros.	Multiply the parts that are not zero.	Annex the ending zeros.
400×70	$4 \times 7 = \textbf{28}$	**28** followed by **3 zeros** is 28,000.

2 zeros + 1 zero = **3 zeros**
So, $400 \times 70 = 28,000$

Guided Practice

Find each product.

1. 500×600

2 zeros + 2 zeros = 4 zeros

$5 \times 6 = $ ____

$500 \times 600 = $ ____ 0,000

2. $2,000 \times 70$

____ zeros + ____ zeros = ____ zeros

$2 \times 7 = $ ____

$2,000 \times 70 = $ _____

3. $90 \times 200 = $ _____

Product is $9 \times 2 = $ ____ followed by ____ zeros.

4. $4,000 \times 500 = $ _____

Product is $4 \times 5 = $ ____ followed by ____ zeros.

5. $6,000 \times 6,000 = $ _____

Product is $6 \times 6 = $ ____ followed by ____ zeros.

SKILL 12: Practice

Find each product.

1. 50 × 50 = _____

2. 50 × 200 = _____

3. 300 × 900 = _____

4. 90 × 100 = _____

5. 6 × 900 = _____

6. 3 × 6,000 = _____

7. 7,000 × 70 = _____

8. 3,000 × 5,000 = _____

9. 9,000 × 400 = _____

10. 80 × 500 = _____

11. 8 × 80,000 = _____

12. 600 × 80 = _____

13. 80 × 7,000 = _____

14. 2 × 5,000 = _____

15. 600 × 700 = _____

16. 90 × 90,000 = _____

17. 3,000 × 200 = _____

18. 40,000 × 4 = _____

19. 8 × 90,000 = _____

20. 7,000 × 500 = _____

21. 6,000 × 500 = _____

22. 600 × 30 = _____

Solve.

23. A craft store has 20 boxes of multicolored
beads. There are 80 beads in each box.
How many beads does the store have to sell?   _____

24. A software manufacturer issued
three hundred $50 rebates and
two hundred $30 rebates.
What was the total value of the rebates?   _____

TEST PREP

25. Find the product: 5 × 400.
Skill 12

  A 200   C 2,400
  B 2,000   D 20,000

26. Estimate the sum:
320 + 298 + 307 + 292 + 289.
Skill 6

  F 1,000   H 1,500
  G 2,500   J 2,000