

Frequently Asked Questions

Q: What strategies can you use to multiply one-digit numbers?

A: You can skip count up or down, use doubling or halving, or relate facts to each other in other ways.

For example, to calculate 9×8 , you can:

- calculate 8×8 and count up 8
- calculate 8×10 and count down 8
- double 9×4 or double 9×2 twice
- use the pattern for the 9s facts: the tens digit is $8 - 1$ and the ones digit is $10 - 8$

Q: How can you multiply by multiples of tens, hundreds, or thousands?

A: You can multiply the front digits and then adjust the answer to tens, hundreds, or thousands.

For example, 3×2000 is 3×2 thousands, or 6000. Similarly, 40×70 is 40×7 tens, which is 280 tens, or 2800.

Q: How can you simplify a calculation using the half/double strategy?

A: If possible, halve or double one of the numbers you are multiplying to make it 10, 100, or 1000. Then do the opposite to the other number.

For example,

$$68 \times 50 = (68 \div 2) \times (50 \times 2)$$

$$68 \times 50 = 34 \times 100$$

$$68 \times 50 = 3400$$

Practice

Lesson 1

1. Calculate each product using a different strategy. Explain your strategy for one answer.
a) 3×5 b) 7×6 c) 4×9 d) 7×9
2. Juice drinks are sold in packs of three. How many juice drinks are in six packs?

Lesson 2

3. Calculate each product, and describe the strategy you used.
a) 8×9 b) 5×8 c) 7×8 d) 7×4
4. Ami bought eight plates of sushi like the one shown. How many pieces of sushi did she buy?



Lesson 4

5. Show that $40 \times 60 = 2400$.
6. Calculate.
a) 30×60 d) 8×2000
b) 5×800 e) 3×900
c) 40×90 f) 10×300
7. A bank teller has 18 \$100 bills in a cash drawer. What is the total value of the bills?

Communication Tip

You can use the symbol "h" to represent hours. For example, you can write "5 h" instead of "five hours."

Lesson 5

8. Rewrite each equation using the half/double strategy. Then calculate.
a) $50 \times 12 = m$ c) $p = 16 \times 500$
b) $n = 5 \times 36$ d) $25 \times 16 = q$
9. Carolyn babysat for 38 h over the summer. She earned \$5 an hour. How much did she earn over the summer?