

3-Digit × 3-Digit Multiplication

30 Problems · Answer Key

Name: _____

Date: _____

1. $200 \times 300 = 60,000$	2. $400 \times 200 = 80,000$	3. $300 \times 300 = 90,000$
4. $250 \times 200 = 50,000$	5. $120 \times 300 = 36,000$	6. $123 \times 212 = 26,076$
7. $231 \times 123 = 28,413$	8. $213 \times 132 = 28,116$	9. $321 \times 213 = 68,373$
10. $132 \times 231 = 30,492$	11. $234 \times 123 = 28,782$	12. $345 \times 212 = 73,140$
13. $246 \times 132 = 32,472$	14. $258 \times 143 = 36,894$	15. $367 \times 124 = 45,508$
16. $456 \times 234 = 106,704$	17. $567 \times 345 = 195,615$	18. $486 \times 273 = 132,678$
19. $594 \times 386 = 229,284$	20. $678 \times 247 = 167,466$	21. $738 \times 469 = 346,122$
22. $852 \times 367 = 312,684$	23. $946 \times 588 = 556,248$	24. $875 \times 694 = 607,250$
25. $789 \times 456 = 359,784$	26. $999 \times 999 = 998,001$	27. $888 \times 777 = 689,976$
28. $963 \times 748 = 720,324$	29. $847 \times 659 = 558,173$	30. $725 \times 836 = 606,100$

Quick grading notes

- Check the final answer first. If it matches, the work is essentially correct.
- If it's wrong, look at the THREE partial products (rows 3-5). Common errors:
 - – A partial product wrong: a single-digit $\times$ or a carry slipped. Re-do just that row.
 - – Shift error: row 4 must start one cell LEFT of row 3, and row 5 two cells left. The grid makes a missed shift easy to spot — check the right edge of each partial-product row steps left by one each time.
 - – Partial products right but answer wrong: an addition slip in the final row.
 - – Answer off by a factor of 10 or 100: a partial product wasn't shifted. Very common.
- ★ Problem 26 ($999 \times 999 = 998,001$): elegant shortcut $(1000-1)^2 = 1,000,000 - 2,000 + 1$. Long-way correct = strong execution; spotting the shortcut = algebraic intuition.