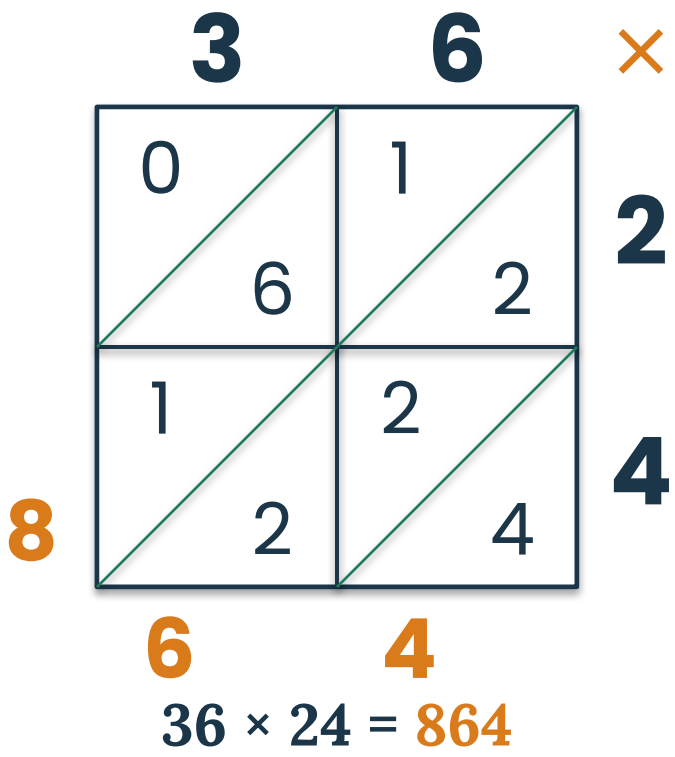
# Lattice Multiplication: It's Just a Grid!

4th Grade

Homework Decoder · 2-digit × 2-digit the lattice way

Name: _____ Date: _____

Lattice multiplication breaks a big problem into small facts you already know. Here is 36 × 24, one step at a time.




**1 Draw the grid.**

One column for each digit on top (3, 6) and one row for each digit on the side (2, 4). Slash every box corner to corner.

**2 Multiply each box.**

Multiply the digit above by the digit beside it. Tens go in the top half, ones in the bottom half. 6 × 4 = 24: write 2 on top, 4 on the bottom.

**3 Add along the slants.**

Start at the bottom right. Add each diagonal lane. If a lane adds up to 10 or more, carry the tens to the next lane.

**4 Read the answer.**

Read the digits down the left side, then across the bottom: 8, 6, 4.

## Check the lanes

Lane 1 (bottom right): 4
Lane 2: 2 + 2 + 2 = 6
Lane 3: 1 + 1 + 6 = 8
Lane 4 (top left): 0
Answer: 0864 → 864

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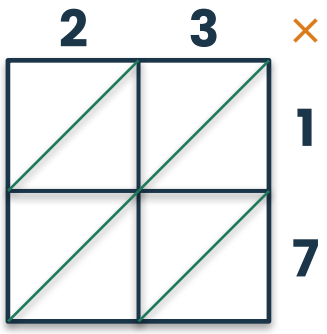
# Your Turn: Fill the Grid

Multiply each box, then add along the slants to read your answer.

4th Grade

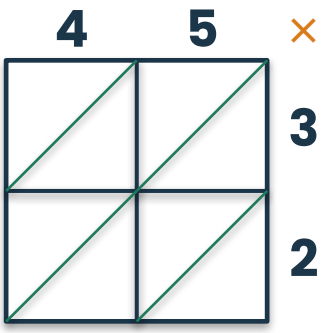
Name: _____ Date: _____

**A. 23 × 17**



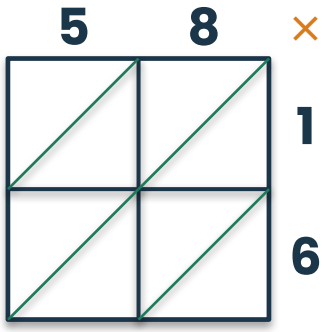

Answer: _____

**B. 45 × 32**



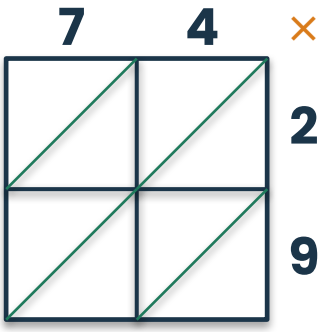

Answer: _____

**C. 58 × 16**



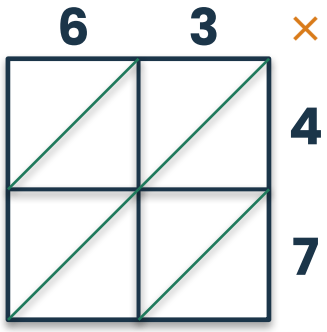

Answer: _____

**D. 74 × 29**



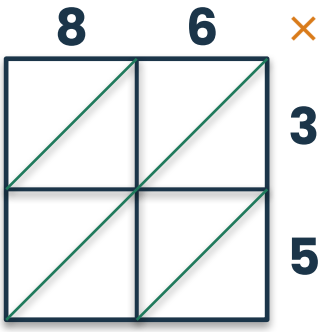

Answer: _____

**E. 63 × 47**




Answer: _____

**F. 86 × 35**




Answer: _____

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# Road Trip Math: Word Problems

4th Grade

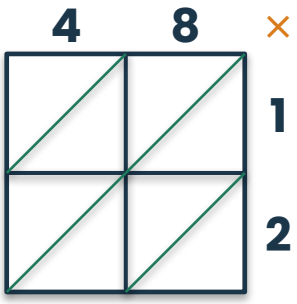
Over the river and through the woods! Use a lattice to solve each one.

Name: _____ Date: _____



1. The drive to Grandma's farm is 48 miles. The family makes that drive 12 times a year. How many miles is that?

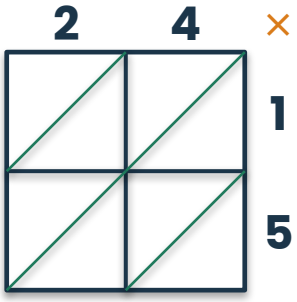
Answer: _____ miles






2. A bakery packs 24 dinner rolls in each box. A big family dinner needs 15 boxes. How many rolls is that?

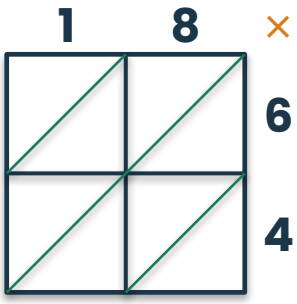
Answer: _____ rolls






3. A holiday train has 18 cars. Each car has 64 seats. How many seats are on the train?

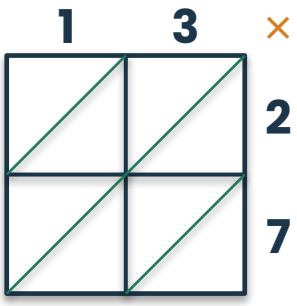
Answer: _____ seats






4. A hiking club walks the 13-mile river trail 27 times this fall. How many miles do they walk?

Answer: _____ miles




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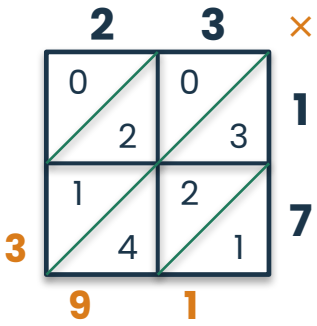
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# Answer Key

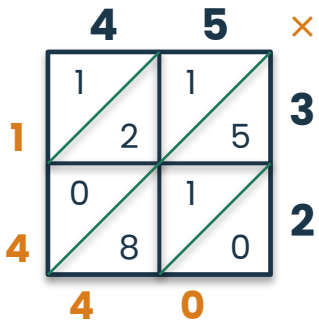
For grown-ups: lattices filled in, answers in orange.

4th Grade

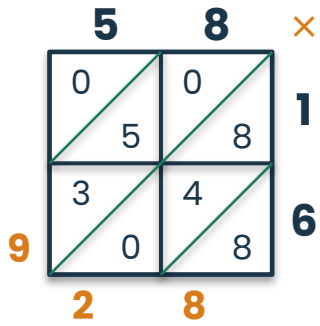
**A. 23 × 17 = 391**



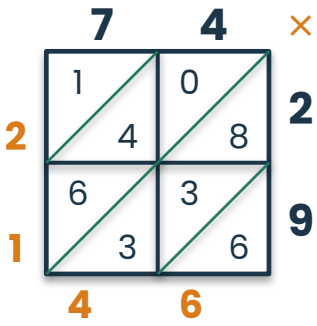

**B. 45 × 32 = 1,440**



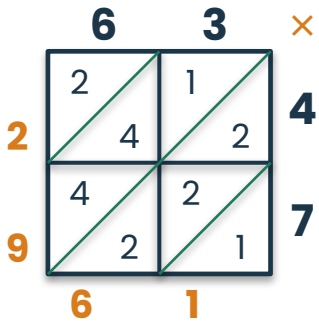

**C. 58 × 16 = 928**



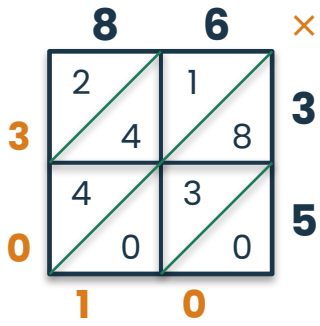

**D. 74 × 29 = 2,146**



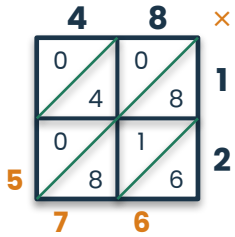

**E. 63 × 47 = 2,961**



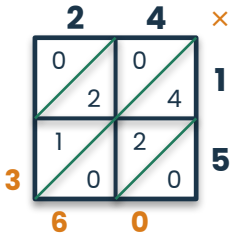

**F. 86 × 35 = 3,010**



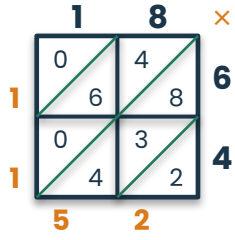

**1. 48 × 12 = 576 miles**



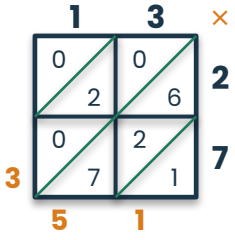

**2. 24 × 15 = 360 rolls**




**3. 18 × 64 = 1,152 seats**




**4. 13 × 27 = 351 miles**




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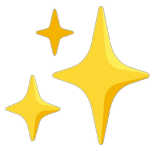
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