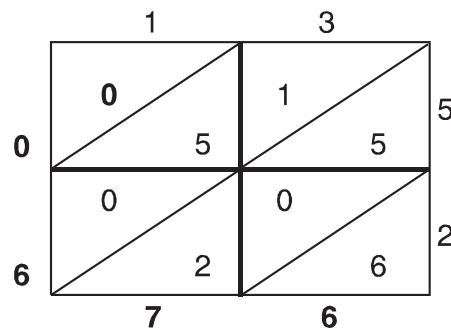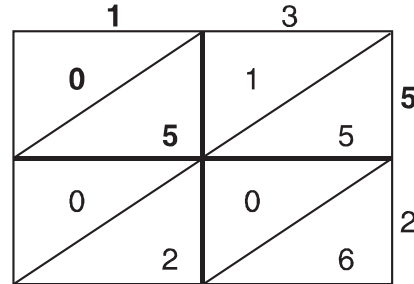Name _____

The Lattice Method

Among the earliest methods of multiplication is the lattice method.

Multiply. 13 × 52

- Write one factor along the top of the lattice and the other factor along the right side.

- Multiply each digit of the factors. Record the products inside the lattice so the ones and tens are separated by a diagonal.

- Add the numbers in the grid along the diagonals, starting from the lower right corner. Record each sum at the end of its diagonal just as you do when adding columns.

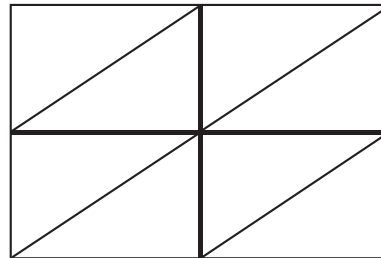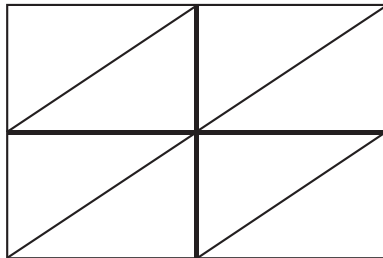- Read the digits down the left and across the bottom. This is the product.

So, 13 × 52 = 676.

Use the lattice method to find the product.

1. 31 × 22 = _____

2. 32 × 56 = _____

3. [Write Math] ► How does the lattice method use partial products to multiply?

_____

_____

_____