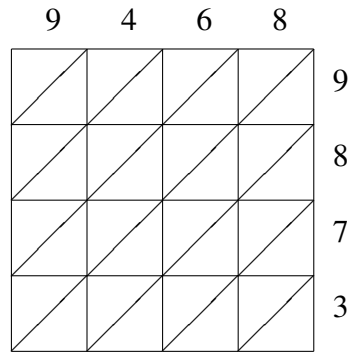# Lattice Multiplication (A)
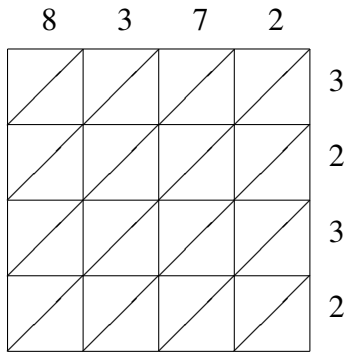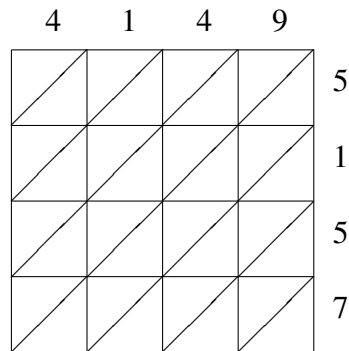
Use lattice multiplication to find each product.

```
      8    3    7    2
   ┌────┬────┬────┬────┐
   │ ╱  │ ╱  │ ╱  │ ╱  │ 3
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 2
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 3
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 2
   └────┴────┴────┴────┘
```

```
      9    4    6    8
   ┌────┬────┬────┬────┐
   │ ╱  │ ╱  │ ╱  │ ╱  │ 9
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 8
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 7
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 3
   └────┴────┴────┴────┘
```

$8372 \times 3232 =$ _____

$9468 \times 9873 =$ _____

```
      1    9    0    1
   ┌────┬────┬────┬────┐
   │ ╱  │ ╱  │ ╱  │ ╱  │ 8
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 3
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 2
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 9
   └────┴────┴────┴────┘
```

```
      4    1    4    9
   ┌────┬────┬────┬────┐
   │ ╱  │ ╱  │ ╱  │ ╱  │ 5
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 1
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 5
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 7
   └────┴────┴────┴────┘
```

$1901 \times 8329 =$ _____

$4149 \times 5157 =$ _____

```
      3    6    0    2
   ┌────┬────┬────┬────┐
   │ ╱  │ ╱  │ ╱  │ ╱  │ 1
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 4
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 7
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 0
   └────┴────┴────┴────┘
```

```
      1    3    0    6
   ┌────┬────┬────┬────┐
   │ ╱  │ ╱  │ ╱  │ ╱  │ 5
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 1
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 0
   ├────┼────┼────┼────┤
   │ ╱  │ ╱  │ ╱  │ ╱  │ 8
   └────┴────┴────┴────┘
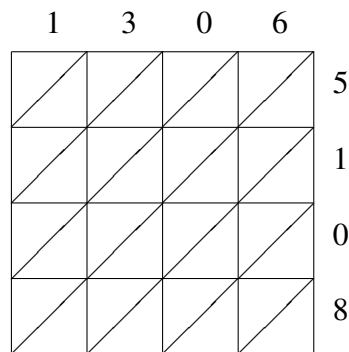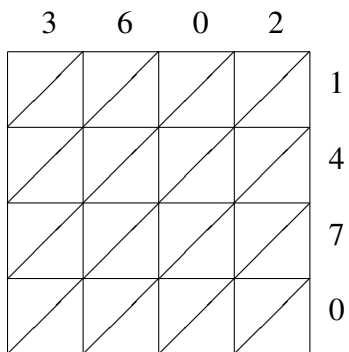```
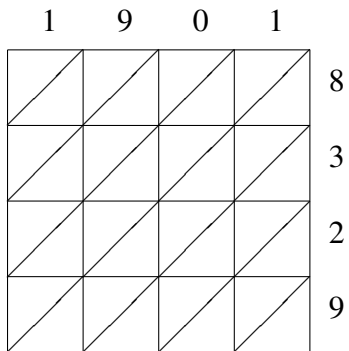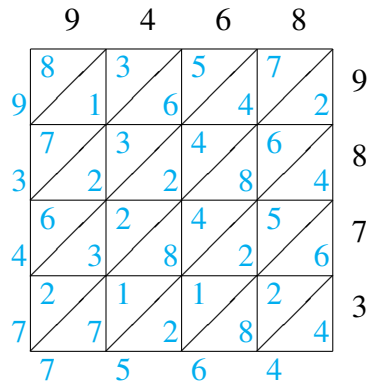
$3602 \times 1470 =$ _____

$1306 \times 5108 =$ _____
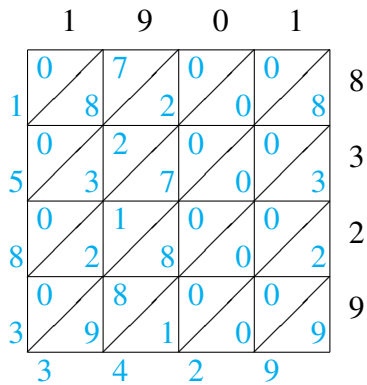
# Lattice Multiplication (A) Answers
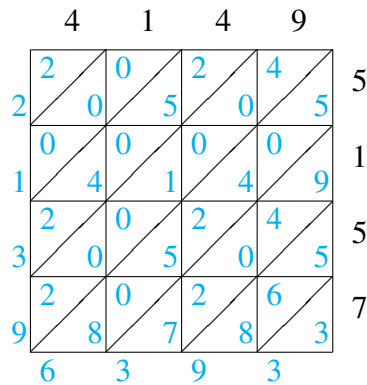
## Use lattice multiplication to find each product.
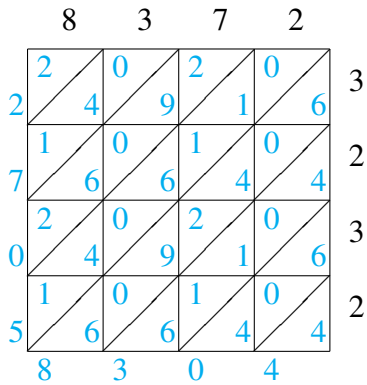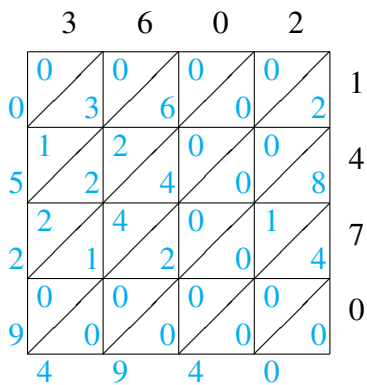


$8372 \times 3232 = 27,058,304$
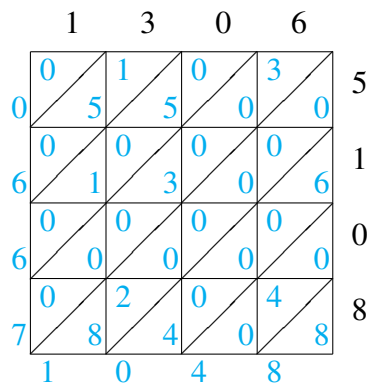


$9468 \times 9873 = 93,477,564$



$1901 \times 8329 = 15,833,429$



$4149 \times 5157 = 21,396,393$



$3602 \times 1470 = 5,294,940$



$1306 \times 5108 = 6,671,048$