Lattice multiplication with two- and three-digit numbers (2x3)
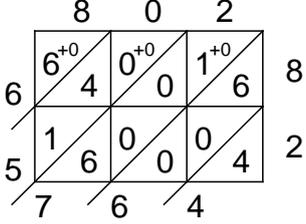
Solutions are on page 2

(1)
802 x 82 = 65,764

(2) 828 x 47 =

(3) 572 x 75 =

(4) 809 x 83 =

(5) 132 x 91 =

(6) 338 x 48 =

(7) 849 x 33 =

(8) 883 x 93 =

(9) 141 x 25 =

(10) 585 x 49 =

(11) 500 x 42 =

(12) 764 x 80 =

Lattice multiplication with two- and three-digit numbers (2x3)

Also see the Worksheets and Walkthroughs video: 'Multiplication--The Lattice Method'

(1)

802 x 82 = 65,764

```
      8   0   2
    6+0 0+0 1+0
  6  4   0   6  8
    1   0   0
  5  6   0   4  2
    7   6   4
```

(2)

828 x 47 = 38,916

```
      8   2   8
    3+0 0+1 3+1
  3  2   8   2  4
    5   1   5
  8  6   4   6  7
    9   1   6
```

(3)

572 x 75 = 42,900

```
      5   7   2
    3+1 4+1 1+1
  4  5   9   4  7
    2   3   1
  2  5   5   0  5
    9   0   0
```

(4)

809 x 83 = 67,147

```
      8   0   9
    6+0 0+1 7+0
  6  4   0   2  8
    2   0   2
  7  4   0   7  3
    1   4   7
```

(5)

132 x 91 = 12,012

```
      1   3   2
    0+1 2+1 1+1
  1  9   7   8  9
    0   0   0
  2  1   3   2  1
    0   1   2
```

(6)

338 x 48 = 16,224

```
      3   3   8
    1+0 1+1 3+1
  1  2   2   2  4
    2   2   6
  6  4   4   4  8
    2   2   4
```

(7)

849 x 33 = 28,017

```
      8   4   9
    2+0 1+1 2+1
  2  4   2   7  3
    2   1   2
  8  4   2   7  3
    0   1   7
```

(8)

883 x 93 = 82,119

```
      8   8   3
    7+1 7+1 2+1
  8  2   2   7  9
    2   2   0
  2  4   4   9  3
    1   1   9
```

(9)

141 x 25 = 3,525

```
      1   4   1
    0+0 0+1 0+0
  0  2   8   2  2
    0   2   0
  3  5   0   5  5
    5   2   5
```

(10)

585 x 49 = 28,665

```
      5   8   5
    2+0 3+1 2+0
  2  0   2   0  4
    4   7   4
  8  5   2   5  9
    6   6   5
```

(11)

500 x 42 = 21,000

```
      5   0   0
    2+0 0+0 0+0
  2  0   0   0  4
    1   0   0
  1  0   0   0  2
    0   0   0
```

(12)

764 x 80 = 61,120

```
      7   6   4
    5+1 4+1 3+0
  6  6   8   2  8
    0   0   0
  1  0   0   0  0
    1   2   0
```