Area models & partial products

3 digits × 2 digits

Name: _____ Date: _____

Multiply each pair of place values. Add the partial products. Models are not to scale.

1. **816 × 37 = _____**

	800	10	6
30			
7			

Add the partial products:

_____

2. **809 × 84 = _____**

	800	0	9
80			
4			

Add the partial products:

_____

3. **892 × 53 = _____**

	800	90	2
50			
3			

Add the partial products:

_____

4. **685 × 25 = _____**

	600	80	5
20			
5			

Add the partial products:

_____

5. **858 × 95 = _____**

	800	50	8
90			
5			

Add the partial products:

_____

6. **990 × 50 = _____**

	900	90	0
50			
0			

Add the partial products:

_____

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Area models & partial products — Key

3 digits × 2 digits

Use the matching edition. Other correct methods are valid.

Multiply each pair of place values. Add the partial products. Models are not to scale.

1. 816 × 37 = 30,192

	800	10	6
30	24,000	300	180
7	5,600	70	42

24,000 + 300 + 180 = 24,480

5,600 + 70 + 42 = 5,712

Total 30,192

2. 809 × 84 = 67,956

	800	0	9
80	64,000	0	720
4	3,200	0	36

64,000 + 0 + 720 = 64,720

3,200 + 0 + 36 = 3,236

Total 67,956

3. 892 × 53 = 47,276

	800	90	2
50	40,000	4,500	100
3	2,400	270	6

40,000 + 4,500 + 100 = 44,600

2,400 + 270 + 6 = 2,676

Total 47,276

4. 685 × 25 = 17,125

	600	80	5
20	12,000	1,600	100
5	3,000	400	25

12,000 + 1,600 + 100 = 13,700

3,000 + 400 + 25 = 3,425

Total 17,125

5. 858 × 95 = 81,510

	800	50	8
90	72,000	4,500	720
5	4,000	250	40

72,000 + 4,500 + 720 = 77,220

4,000 + 250 + 40 = 4,290

Total 81,510

6. 990 × 50 = 49,500

	900	90	0
50	45,000	4,500	0
0	0	0	0

45,000 + 4,500 + 0 = 49,500

0 + 0 + 0 = 0

Total 49,500

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