

Area model multiplication

Break the numbers into place values. Multiply each part, then add the parts.

1 Study the model.

Worked example: 47×23

	40	7
20	800	140
3	120	21

- Split by place value: $47 = 40 + 7$ and $23 = 20 + 3$.
- Multiply each part: $20 \times 40 = 800$, $20 \times 7 = 140$, $3 \times 40 = 120$, $3 \times 7 = 21$.
- Add the parts: $800 + 140 + 120 + 21 = 1081$.
So $47 \times 23 = 1081$.

2 Fill in each area model. Then write the product.

1. $38 \times 4 =$

	30	8
4		

2. $56 \times 7 =$

	50	6
7		

3. $124 \times 3 =$

	100	20	4
3			

4. $63 \times 8 =$

	60	3
8		

5. $24 \times 13 =$

	20	4
10		
3		

6. $35 \times 22 =$

	30	5
20		
2		

7. $41 \times 26 =$

	40	1
20		
1		

8. $58 \times 17 =$

	50	8
10		
8		

3 Solve the garden problems. Draw an area model to help.

9. The Grade 4 class plants 6 rows of 18 tulip bulbs. How many bulbs do they plant?

Answer bulbs

Draw your area model here.

10. The school has 13 garden beds with 26 lettuce plants in each bed. How many lettuce plants is that?

Answer plants

Draw your area model here.