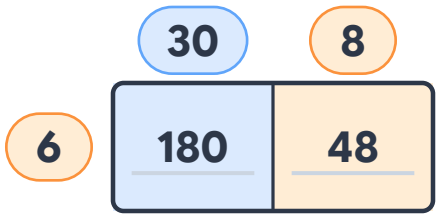
Name _____ Date _____

Multiplying with Area Models

Each part is a rectangle. Find the area of each part, then add the parts.

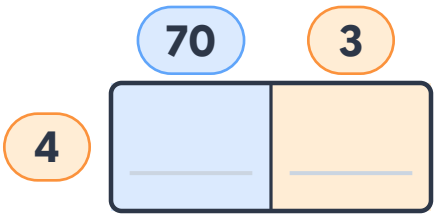
Each column is colored by its place: tens ones

Example 38 × 6



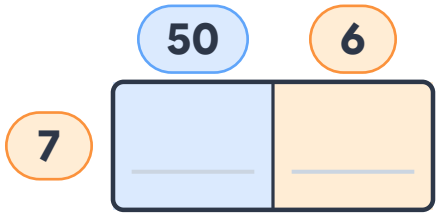
180 + 48 = 228

1. 73 × 4



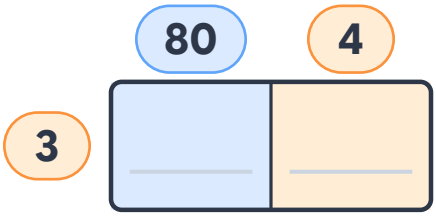
_____ + _____ = _____

2. 56 × 7



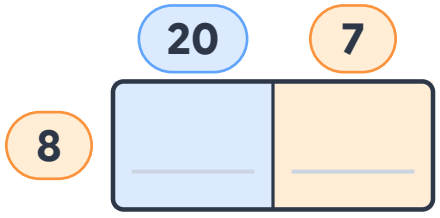
_____ + _____ = _____

3. 84 × 3



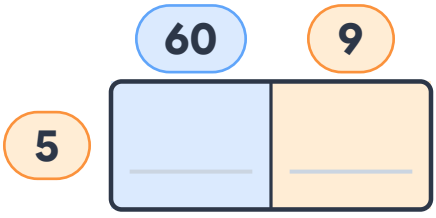
_____ + _____ = _____

4. 27 × 8



_____ + _____ = _____

5. 69 × 5



_____ + _____ = _____

Name _____ Date _____

Multiplying with Area Models

Split the number into hundreds, tens and ones on top. Fill in the model and add.

Each column is colored by its place: hundreds tens ones

Example 352 × 4

	300	50	2
4	1,200	200	8

1,200 + 200 + 8 = 1,408

1. 647 × 3

3			

____ + ____ + ____ = ____

2. 218 × 6

6			

____ + ____ + ____ = ____

3. 734 × 5

5			

____ + ____ + ____ = ____

4. 469 × 7

7			

____ + ____ + ____ = ____

5. 285 × 9

9			

____ + ____ + ____ = ____

Name _____ Date _____

Multiplying with Area Models

Split the 4-digit number by place value. Fill in the four parts and add them.

Each column is colored by its place: thousands · hundreds · tens · ones

Example

1,264 × 3

	1,000	200	60	4
3	3,000	600	180	12

3,000
600
180
\+ 12
3,792

1.

3,172 × 5

5				

\+ _____

2.

2,638 × 4

4				

\+ _____

3.

1,457 × 6

6				

\+ _____

Name _____ Date _____

Multiplying with Area Models

Split both numbers into tens and ones. Find the four parts, then add them.

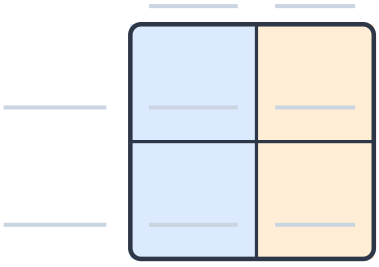
Each column is colored by its place: tens ones

Example 32 × 17

	30	2
10	300	20
7	210	14

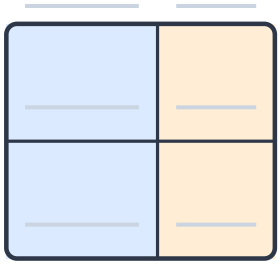
300
20
210
+ 14
544

1. 46 × 25



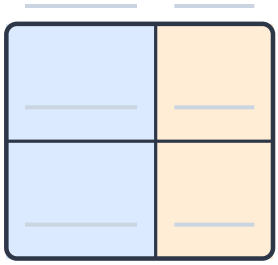
+ _____

2. 53 × 28



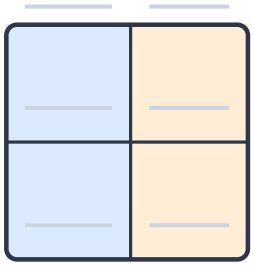
+ _____

3. 67 × 34



+ _____

4. 38 × 26



+ _____

5. 75 × 43



+ _____

Name _____ Date _____

Multiplying with Area Models

Read each area model. Write the missing numbers and the problem it shows.

Each column is colored by its place: hundreds tens ones

Example What is the problem?

	500	70	4
6	3,000	420	24

6 × 574 = 3,444

1. What is the problem?

	40	8
30	1,200	240
6	240	48

_____ × _____ = _____

2. Find the missing numbers.

	200	_____	9
7	1,400	350	63

_____ × _____ = _____

3. Find the missing numbers.

	80	3
_____	480	18

_____ × _____ = _____

4. Find the missing numbers.

	800	30	6
4	_____	120	_____

_____ × _____ = _____

5. Find the missing numbers.

	50	_____
30	1,500	180
8	400	_____

_____ × _____ = _____

Name _____ Date _____

Multiplying with Area Models

Draw an area model for each problem. Use it to find the product.

1. **1,326 × 7**

Answer: _____

2. **23 × 45**

Answer: _____

3. A farm packs **8** crates of apples. Each crate holds **236** apples. How many apples does the farm pack?

Answer: _____ apples

4. The gym has **34** rows of seats, with **28** seats in each row. How many seats are in the gym?

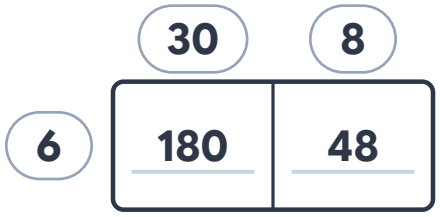
Answer: _____ seats

Name _____ Date _____

Multiplying with Area Models

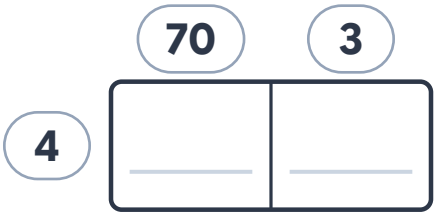
Each part is a rectangle. Find the area of each part, then add the parts.

Example **38 × 6**



180 + 48 = 228

1. 73 × 4



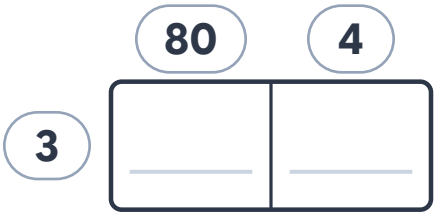
_____ + _____ = _____

2. 56 × 7



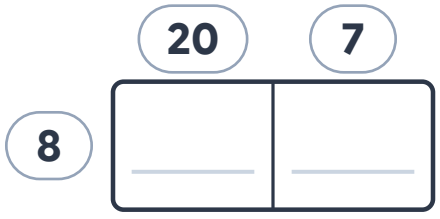
_____ + _____ = _____

3. 84 × 3



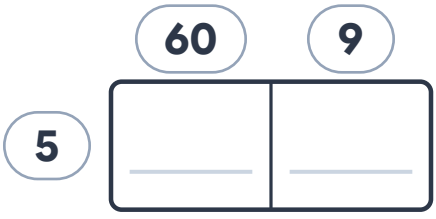
_____ + _____ = _____

4. 27 × 8



_____ + _____ = _____

5. 69 × 5



_____ + _____ = _____

Name _____ Date _____

Multiplying with Area Models

Split the number into hundreds, tens and ones on top. Fill in the model and add.

Example **352 × 4**

	300	50	2
4	1,200	200	8

1,200 + 200 + 8 = 1,408

1. 647 × 3

3			

____ + ____ + ____ = ____

2. 218 × 6

6			

____ + ____ + ____ = ____

3. 734 × 5

5			

____ + ____ + ____ = ____

4. 469 × 7

7			

____ + ____ + ____ = ____

5. 285 × 9

9			

____ + ____ + ____ = ____

Name _____ Date _____

Multiplying with Area Models

Split the 4-digit number by place value. Fill in the four parts and add them.

Example

1,264 × 3

	1,000	200	60	4
3	3,000	600	180	12

3,000
600
180
\+ 12
3,792

1.

3,172 × 5

5				

\+ _____

2.

2,638 × 4

4				

\+ _____

3.

1,457 × 6

6				

\+ _____

Name _____ Date _____

Multiplying with Area Models

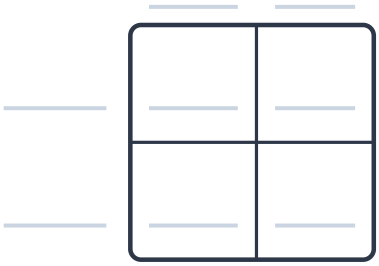
Split both numbers into tens and ones. Find the four parts, then add them.

Example **32 × 17**

	30	2
10	300	20
7	210	14

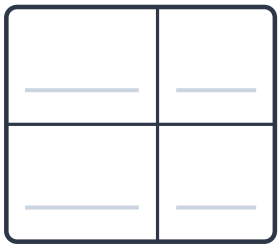
300
20
210
+ 14
544

1. 46 × 25



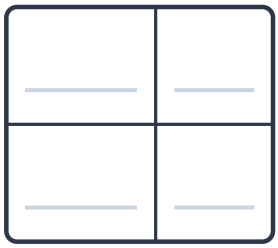
+ _____

2. 53 × 28



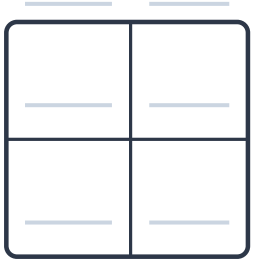
+ _____

3. 67 × 34



+ _____

4. 38 × 26



+ _____

5. 75 × 43



+ _____

Name _____ Date _____

Multiplying with Area Models

Read each area model. Write the missing numbers and the problem it shows.

Example What is the problem?

	500	70	4
6	3,000	420	24

6 × 574 = 3,444

1. What is the problem?

	40	8
30	1,200	240
6	240	48

_____ × _____ = _____

2. Find the missing numbers.

	200	_____	9
7	1,400	350	63

_____ × _____ = _____

3. Find the missing numbers.

	80	3
_____	480	18

_____ × _____ = _____

4. Find the missing numbers.

	800	30	6
4	_____	120	_____

_____ × _____ = _____

5. Find the missing numbers.

	50	_____
30	1,500	180
8	400	_____

_____ × _____ = _____

Name _____ Date _____

Multiplying with Area Models

Draw an area model for each problem. Use it to find the product.

1. **1,326 × 7**

Answer: _____

2. **23 × 45**

Answer: _____

3. A farm packs **8** crates of apples. Each crate holds **236** apples. How many apples does the farm pack?

Answer: _____ apples

4. The gym has **34** rows of seats, with **28** seats in each row. How many seats are in the gym?

Answer: _____ seats

Multiplying with Area Models

Each part is a rectangle. Find the area of each part, then add the parts.

Example 38 × 6

6	30	8
	180	48

180 + 48 = 228

1. 73 × 4

4	70	3
	280	12

280 + 12 = 292

2. 56 × 7

7	50	6
	350	42

350 + 42 = 392

3. 84 × 3

3	80	4
	240	12

240 + 12 = 252

4. 27 × 8

8	20	7
	160	56

160 + 56 = 216

5. 69 × 5

5	60	9
	300	45

300 + 45 = 345

Multiplying with Area Models

Split the number into hundreds, tens and ones on top. Fill in the model and add.

Example 352 × 4

	300	50	2
4	1,200	200	8

1,200 + 200 + 8 = 1,408

1. 647 × 3

	600	40	7
3	1,800	120	21

1,800 + 120 + 21 = 1,941

2. 218 × 6

	200	10	8
6	1,200	60	48

1,200 + 60 + 48 = 1,308

3. 734 × 5

	700	30	4
5	3,500	150	20

3,500 + 150 + 20 = 3,670

4. 469 × 7

	400	60	9
7	2,800	420	63

2,800 + 420 + 63 = 3,283

5. 285 × 9

	200	80	5
9	1,800	720	45

1,800 + 720 + 45 = 2,565

Multiplying with Area Models

Split the 4-digit number by place value. Fill in the four parts and add them.

Example

1,264 × 3

	1,000	200	60	4
3	3,000	600	180	12

3,000
600
180
+ 12
3,792

1.

3,172 × 5

	3,000	100	70	2
5	15,000	500	350	10

15,000
500
350
+ 10
15,860

2.

2,638 × 4

	2,000	600	30	8
4	8,000	2,400	120	32

8,000
2,400
120
+ 32
10,552

3.

1,457 × 6

	1,000	400	50	7
6	6,000	2,400	300	42

6,000
2,400
300
+ 42
8,742

Multiplying with Area Models

Split both numbers into tens and ones. Find the four parts, then add them.

Example 32 × 17

	30	2
10	300	20
7	210	14

300 + 20 + 210 + 14 = 544

1. 46 × 25

	40	6
20	800	120
5	200	30

800 + 120 + 200 + 30 = 1,150

2. 53 × 28

	50	3
20	1,000	60
8	400	24

1,000 + 60 + 400 + 24 = 1,484

3. 67 × 34

	60	7
30	1,800	210
4	240	28

1,800 + 210 + 240 + 28 = 2,278

4. 38 × 26

	30	8
20	600	160
6	180	48

600 + 160 + 180 + 48 = 988

5. 75 × 43

	70	5
40	2,800	200
3	210	15

2,800 + 200 + 210 + 15 = 3,225

Multiplying with Area Models

Read each area model. Write the missing numbers and the problem it shows.

Example What is the problem?

	500	70	4
6	3,000	420	24

6 × 574 = 3,444

1. What is the problem?

	40	8
30	1,200	240
6	240	48

36 × 48 = 1,728

2. Find the missing numbers.

	200	50	9
7	1,400	350	63

7 × 259 = 1,813

3. Find the missing numbers.

	80	3
6	480	18

6 × 83 = 498

4. Find the missing numbers.

	800	30	6
4	3,200	120	24

4 × 836 = 3,344

5. Find the missing numbers.

	50	6
30	1,500	180
8	400	48

38 × 56 = 2,128

Multiplying with Area Models

Draw an area model for each problem. Use it to find the product.

1. **1,326 × 7**

	1,000	300	20	6
7	7,000	2,100	140	42

Answer: 9,282

2. **23 × 45**

	20	3
40	800	120
5	100	15

Answer: 1,035

3. A farm packs **8** crates of apples. Each crate holds **236** apples. How many apples does the farm pack?

	200	30	6
8	1,600	240	48

Answer: 1,888 apples

4. The gym has **34** rows of seats, with **28** seats in each row. How many seats are in the gym?

	30	4
20	600	80
8	240	32

Answer: 952 seats