

Partial Products & Area Models

- Step 1:** Multiply by the ones.
Step 2: Multiply by the tens.
Step 3: List the partial products.
Step 4: Add all of the partial products to find the total.



54 x 26

54	think 50 + 4
x 26	think 20 + 6
24	(6 x 4)
300	(6 x 50)
80	(20 x 4)
+ 1000	(20 x 50)
1,404	

Directions: Find the product using the partial products method.

1)

		7	7
	x	2	3
.	+		

2)

		9	6
	x	6	2
.	+		

3)

		2	2
	x	5	3
.	+		

4)

		1	5
	x	3	5
.	+		

Partial Products & Area Models

$$35 \times 12 = \underline{\hspace{2cm}}$$

Step 1

Write each number in expanded form.

	30	5
10		
2		

Step 2

Multiply to find each of the partial products.

	30	5
10	300	50
2	60	10

Step 3

Add the partial products.

	30	5
10	300	50
2	60	10

$$\begin{array}{r} 1 \\ 300 \\ 50 \\ 60 \\ + 10 \\ \hline 420 \end{array}$$

$$35 \times 12 = \underline{420}$$

Directions: Use the area model method to solve each problem. Record the products on the answer lines.

1) $18 \times 82 = \underline{\hspace{2cm}}$

2) $88 \times 17 = \underline{\hspace{2cm}}$

3) $34 \times 32 = \underline{\hspace{2cm}}$

4) $64 \times 28 = \underline{\hspace{2cm}}$
