

# Area Model Multiplication

Uses expanded form of the factors to multiply.

$$25 \times 15 =$$

	$20 + 5$	
$10$	$200 + 50$	$= 250$
$+$		
$5$	$100 + 25$	$+ 125$
		<hr style="width: 50px; margin: 0 auto;"/> $375$

- ① Draw box/grid
- ② Write factors in expanded form
- ③ Multiply tens place by tens place
- ④ Multiply tens place by ones place
- ⑤ Multiply ones place by tens place
- ⑥ Multiply ones place by ones place
- ⑦ Add partial products.

$$26 \times 16 =$$

	20 + 6		
10	200 +	60	= 260
+			+
6	120 +	36	= 156
			<u>416</u>

$$46 \times 35 =$$

	40 + 6		
30	1200 +	180	= 1380
+			+
5	200 +	30	= 230
			<u>1,610</u>