

G4-M3-Lesson 11

1. Solve the following expression using the standard algorithm, the partial products method, and the area model.

672×8			
	6	7	2
×			8
<hr/>			
		1	6
	5	6	0
+	4	8	0
	1		
<hr/>			
	5	3	7
			6

	6	7	2
×			8
<hr/>			
	5	7	
	5	3	7
			6

	600	70	2
8	4,800	560	16

$8 \times (600 + 70 + 2)$

$(8 \times 600) + (8 \times 70) + (8 \times 2)$

I see the same partial products in the area model.

I multiply unit by unit when solving using partial products, the algorithm, or the area model. All along I have been using the distributive property! Now I can write it out as an expression to match.

2. Solve using the standard algorithm, the area model, the distributive property, or the partial products method.

Each year, Mr. Hill gives \$5,725 to charity, and Mrs. Hill gives \$752. After 5 years, how much has the couple given to charity?

a	
5,725	752

$a = 5,725 + 752$

$a = 6,477$

I add to find the total given in charity each year.

	6,000	400	70	7
5	30,000	2,000	350	35

$5 \times (6,000 + 400 + 70 + 7)$

$(5 \times 6,000) + (5 \times 400) + (5 \times 70) + (5 \times 7)$

	6	4	7	7
×				5
<hr/>				
	1	1	1	
	3	2	3	8
				5

p				
6,477				

$p = 6,477 \times 5$

$p = 32,385$

After 5 years, Mr. and Mrs. Hill have given \$32,385 to charity.