

Exercise 2.2 (Page 25)

1. a. 1028×321

		Th	H	T	O
		1	0	2	8
	x		3	2	1
		1	0	2	8
Step 1: 1028×1		2	0	5	6
Step 2: 1028×20		3	0	8	4
Step 3: 1028×300	+	3	2	9	9
		3	2	9	8
		8	8	8	8

Therefore, $1028 \times 321 = 3,29,988$

b. 4721×521

		C	L	T	Th	H	T	O
					4	7	2	1
	x					5	2	1
					4	7	2	1
Step 1: 4721×1				9	4	4	2	0
Step 2: 4721×20		2	3	6	0	5	0	0
Step 3: 4721×500	+	2	4	5	9	6	4	1
		2	4	5	9	6	4	1

Therefore, $4721 \times 521 = 24,59,641$

c. 1231×482

		L	T	Th	Th	H	T	O
					1	2	3	1
	x					4	8	2
					2	4	6	2
Step 1: 1231×2				9	8	4	8	0
Step 2: 1231×80		4	9	2	4	0	0	0
Step 3: 1231×400	+	4	9	2	4	0	0	0
		5	9	3	3	4	2	2

Therefore, $1231 \times 482 = 5,93,342$

d. 1845×240

	L	TTh	Th	H	T	O
			1	8	4	5
×				2	4	0
Step 1: 1845×0			0	0	0	0
Step 2: 1845×40		7	3	8	0	0
Step 3: 1845×200	+	3	6	9	0	0
	4	4	2	8	0	0

Therefore, $1845 \times 240 = 4,42,800$

e. 4837×103

	L	TTh	Th	H	T	O
			4	8	3	7
×				1	0	3
Step 1: 4837×3			1	4	5	1
Step 2: 4837×0			0	0	0	0
Step 3: 4837×100	+	4	8	3	7	0
	4	9	8	2	1	1

Therefore, $4837 \times 103 = 4,98,211$

f. 3421×120

	L	TTh	Th	H	T	O
			3	4	2	1
×				1	2	0
Step 1: 3421×0			0	0	0	0
Step 2: 3421×20		6	8	4	2	0
Step 3: 3421×100	+	3	4	2	1	0
	4	1	0	5	2	0

Therefore, $3421 \times 120 = 4,10,520$

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g. 5005×1210

	TL	L	TTh	Th	H	T	O
				5	0	0	5
				1	2	1	0
				<hr/>			
Step 1: 5005×0				0	0	0	0
Step 2: 5005×10			5	0	0	5	0
Step 3: 5005×200	1	0	0	1	0	0	0
Step 4: 5005×1000 +	5	0	0	5	0	0	0
	<hr/>						
	6	0	5	6	0	5	0

Therefore, $5005 \times 1210 = 60,56,050$

h. 2527×3985

	C	TL	L	TTh	Th	H	T	O
					2	5	2	7
					3	9	8	5
				<hr/>				
Step 1: 2527×5				1	2	6	3	5
Step 2: 2527×80			2	0	2	1	6	0
Step 3: 2527×900		2	2	7	4	3	0	0
Step 4: 2527×3000 +		7	5	8	1	0	0	0
	<hr/>							
	1	0	0	7	0	0	9	5

Therefore, $2527 \times 3985 = 1,00,70,095$

i. 7108×8015

	C	TL	L	TTh	Th	H	T	O
					7	1	0	8
					8	0	1	5
				<hr/>				
Step 1: 7108×5				3	5	5	4	0
Step 2: 7108×10				7	1	0	8	0
Step 3: 7108×0			0	0	0	0	0	0
Step 4: 7108×8000 +	5	6	8	6	4	0	0	0
	<hr/>							
	5	6	9	7	0	6	2	0

Therefore, $7108 \times 8015 = 5,69,70,620$



2.

	L	TTh	Th	H	T	O
Cost of 1 silk saree			2	4	2	8
Cost of 134 sarees	x			1	3	4
Step 1: 2428×4			9	7	1	2
Step 2: 2428×30		7	2	8	4	0
Step 3: 2428×100	+ 2	4	2	8	0	0
	<u>3</u>	<u>2</u>	<u>5</u>	<u>3</u>	<u>5</u>	<u>2</u>

Hence, 134 sarees will cost ₹3,25,352.

3.

	L	TTh	Th	H	T	O
Total children in a school			1	5	2	0
Amount collected from each child	x			1	2	5
Step 1: 1520×5			7	6	0	0
Step 2: 1520×20		3	0	4	0	0
Step 3: 1520×100	+ 1	5	2	0	0	0
	<u>1</u>	<u>9</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Hence, total amount collected is ₹1,90,000.

4.

Largest 3-digit number = 999
 Smallest 4-digit number = 1000
 So, $999 \times 1000 = 999000$

Hence, the product of largest 3-digit number and smallest 4-digit number is 9,99,000.

5.

	L	TTh	Th	H	T	O
Total number of days			1	2	6	8
Number of dolls factory produces per day	x			3	6	3
Step 1: 1268×3			3	8	0	4
Step 2: 1268×60		7	6	0	8	0
Step 3: 1268×300	+ 3	8	0	4	0	0
	<u>4</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>8</u>	<u>4</u>

Hence, 4,60,284 dolls will be produced in 1268 days.



6.

	TTh	Th	H	T	O
Number of soaps manufactured in a day			4	5	6
Number of soaps manufactured in 15 weeks (15 × 7)	×		1	0	5
Step 1: 456 × 5		2	2	8	0
Step 2: 456 × 0		0	0	0	0
Step 3: 456 × 100	+	4	5	6	0
		<u>4</u>	<u>7</u>	<u>8</u>	<u>8</u>
			8	8	0

Hence, the company manufactures 47,880 soaps in 15 weeks.