Multiplication Models

We are following a three step procedure when solving multiplication problems.

1. Estimate
2. Solve
3. Check

There are many different models for solving multiplication problems. Below are a few we've practiced at school.

1. Partial Product Box (aka Area Model): 2345 X 6 = 14,070

Step 1

X	**2000**	**300**	**40**	**5**
6	12000	1800	240	30

Step 2

12000

1800

240

\+ 30

14,070

2. Left to Right: 2345 X 6 = 14,070

2345

X 6

12000 (6 X 2000)

1800 (6 X 300)

240 (6 X 40)

\+ 30 (6 X 5)

14,070

3. The Short Cut (Traditional Algorithm): 2345 X 6 = 14,070

	Step 1	Step 2	Step 3	Step 4
2345 X 6 ?	3 2345 X 6 0 (6 X 5 = 30)	23 2345 X 6 70 (6 X 4 + 3 + 27)	223 2345 X 6 070 (6 X 3 + 2 = 20)	223 2345 X 6 14,070 (6 X 2 + 2 = 14)