Invented Strategies for Multiplication

...from John A. Van de Walle

Name: _____

Date:_____

Problem:

Complete Number Strategies 63 x 5

63
+ 63
126
+ 63
189
+ 63
252

63 → 126 → 315
63 → 126 → 189
63 → 189

Partitioning Strategies 27 x 4

By Decades

4 x 20 = 80
4 x 7 = 28
→ 108

By Tens and Ones

10 x 4 = 40
10 x 4 = 40
7 x 4 = 28
→ 80 → 108

Partitioning the Multiplier

46 x 3

Double 46 → 92
92 → 138

Compensation Strategies 27 x 4

27 + 3 → 30 x 4 → 120
3 x 4 = 12 → - 12
108

46 x 5

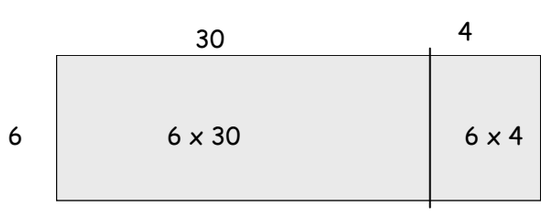
I can split 46 in half and multiply by 10
23 x 10 = 230

Using Multiples of 10 and 100

400 x 12

Students will use 4 x 12 to figure out that 400 x 12 is 4800.

Area Models 34 x6



6 x 30 = 180
6 x4 = 24