Division Strategies Menu

Column Method

434 ÷ 6

2	2	2	2	2	2
50	50	50	50	50	50
20	20	20	20	20	20
1	**2**	**3**	**4**	**5**	**6**

Into the Columns	Left to Divide
12	14 − 12 = (2)
300	314 − 300 = 14
120	434 − 120 = 314

434 ÷ 6 = 72 R2

Partial Quotients

```
  72 R2
6 ) 434 | 50
  −300  |
   134  | 20
  − 120 |
    14  | 2
  −  12 | 72
     2
```

Mental Math

6)434

My cluster of problems for 434 ÷ 6:

6 × 7 = 42
6 × 70 = 420
6 × 2 = 12
42 ÷ 6 = 7
420 ÷ 6 = 70

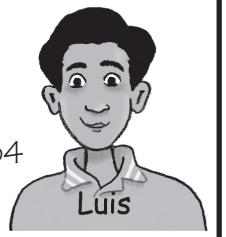
"Since 6 × 70 = 420, I only need 14 more to get to 434. There are 2 sixes in 14. So 70 sixes plus 2 more sixes is 72 sixes. 14 − 12 = 2, so I have 2 left over. The answer is 72 remainder 2."

Using Convenient Numbers to Estimate

434 ÷ 6 = ?

6 × 50 =	300
6 × 60 =	360
6 × 70 =	420
6 × 80 =	480

434



"The answer is between 70 and 80, but closer to 70."

Rectangle Model

434 ÷ 6

6

6 × 40 = 240	40	Area = 434 sq. ft.
6 × 30 = 180	30	− 240 194 − 180 14 − 12 (2)
6 × 2 = 12	2	40 + 30 + 2 = 72 R2

Your Own Strategy