Estimation

Name: _____ Date: _____



Mr Boston says: Round the divisor to the nearest 10, then round the big number so it divides easily.

Estimating helps you know if your answer is sensible. Example: 31443 ÷ 47 → 31,500 ÷ 50 ≈ 630. The real answer is 669.

Round each division to friendly numbers and estimate. Then decide: is Tayo's answer sensible? Write ✓ or ✗.

#	Division	Rounded division	Estimate	Tayo's answer	Sensible?
1	31,443 ÷ 47			669	
2	3,276 ÷ 28			1,170	
3	5,292 ÷ 42			126	
4	8,415 ÷ 55			15	
5	4,182 ÷ 34			123	
6	9,568 ÷ 52			1,840	
7	12,528 ÷ 72			174	
8	27,195 ÷ 37			735	

Explain

9 Pick one answer that is not sensible. How did your estimate help you spot it?

_____

_____

Answers for grown-ups

Estimation

#	Division	Rounded (one good way)	Estimate	Real answer	Tayo
1	31,443 ÷ 47	31,500 ÷ 50	≈ 630	669	**669 ✓ sensible**
2	3,276 ÷ 28	3,300 ÷ 30	≈ 110	117	**1,170 ✗ not sensible**
3	5,292 ÷ 42	5,200 ÷ 40	≈ 130	126	**126 ✓ sensible**
4	8,415 ÷ 55	8,400 ÷ 60	≈ 140	153	**15 ✗ not sensible**
5	4,182 ÷ 34	4,200 ÷ 30	≈ 140	123	**123 ✓ sensible**
6	9,568 ÷ 52	9,500 ÷ 50	≈ 190	184	**1,840 ✗ not sensible**
7	12,528 ÷ 72	12,600 ÷ 70	≈ 180	174	**174 ✓ sensible**
8	27,195 ÷ 37	27,200 ÷ 40	≈ 680	735	**735 ✓ sensible**

Other sensible roundings are fine as long as the estimate is the right size. 9: open answer.