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Use Partial Quotients to Solve Long Division Problems

With partial quotients, we can use **simple** multiples to solve division problems! In the problem below, multiples of 100, 10, and 2 were used to solve the problem.

EXAMPLE:

You have 397 cupcakes and decide to share them with 3 friends. How many cupcakes do each friend get?

3 | 3 9 7			
Subtract each time	- 3 0 0	100	3 X 100 = 300
	9 7		
	- 9 0	30	3 X 30 = 90
	7		
	- 6	+ 2	3 X 2 = 6
This is the remainder	1	132	Add them all

Answer = 132 R1

Use partial quotients to solve these:

4 puppies share 856 cans of dog food. How many cans can each puppy have?

Your music teacher asks you to help put new strings on guitars! You have 726 strings and each guitar needs 6 strings. How many guitars can you put new strings on?