

Proving Addition by casting out 9's

472356	sum = 27	rem. = 0	<u>Explanation</u> The sum of the 1st line is 27 which, when divided by 9, leaves rem. 0; and so on down the ques- tion. The ans. also is totaled
219464	" = 26	" = 8	
763928	" = 35	" = 8	
617483	" = 29	" = 2	
293748	" = 33	" = 6	
617283	" = 27	" = 0	
392748	" = 33	" = 6	
637281	" = 27	" = 0	
4014291	" 9/21	9/30	
	2-3	3-2	

and the 9's cast out ($21 \div 9$) leaving rem. 3. The extended remainders are then added and the 9's cast out. This rem. must correspond with the rem. when the 9's are cast out of the answer. In actual practice only the remainders are set down, so that little time is lost.

Multiplication, too, may be proved correct in this manner. Multiply the remainders from the Multiplicand and Multiplier, cast out the 9's. Do the same with the answer and the remainders should be the same. Also see P 16.

Alternating Addition and Subtraction

49728650
 -3829764
 45898886
 +9473679
 55372565
 -8437296
 46935269
 +7396874
 54332143

A rapid change from addition to subtraction and back again to addition and so on requires constant watchfulness and concentration of attention. Questions of this kind are given in the pad and more should be given by the teacher.

Students should carefully and persistently drill on the exercises at the top of the pad pages.