

******* Mathematical Weekly *******

Week 38

$1 = 1^{\{23456789\}}$	$51 = 1^{\{23\}} + 4 \times 5 + 6 + 7 + 8 + 9$
$2 = 123 + 4 - 56 - 78 + 9$	$52 = 1^{\{2\}} - 3 - 45 + 6 - 7 + 89$
$3 = 123 - 45 - 6 - 78 + 9$	$53 = 12 \times 3 + 4 \times 5 + 6 + 7 + 8 + 9$
$4 = 12 - 34 - 56 - 7 + 89$	$54 = 12 + 3 + 4 + 5 + 6 + 7 + 8 + 9$
$5 = 12 - 34 + 5 - 67 + 89$	$55 = 1 \times 2 + 3 + 4 \times 5 + 6 + 7 + 8 + 9$
$6 = 12 + 34 + 56 - 7 - 89$	$56 = 1 + 2 + 3 + 4 \times 5 + 6 + 7 + 8 + 9$
$7 = 1 + 23 - 4 + 56 - 78 + 9$	$57 = 1 + 2 \times 3 + 4 \times 5 + 6 + 7 + 8 + 9$
$8 = 1 - 23 - 45 + 6 + 78 - 9$	$58 = 1 \times 2^{\{3\}} + 4 \times 5 + 6 + 7 + 8 + 9$
$9 = 1^{\{2345678\}} \times 9$	$59 = 1 \times 2 \times 3 \times 4 + 5 + 6 + 7 + 8 + 9$
$10 = 1^{\{2345678\}} + 9$	$60 = 1 + 2 \times 3 \times 4 + 5 + 6 + 7 + 8 + 9$
$11 = 1 + 23 + 4 + 5 + 67 - 89$	$61 = 1^{\{2\}} \times 3 + 4 + 5 \times 6 + 7 + 8 + 9$
$12 = 123 + 45 - 67 - 89$	$62 = 1 \times 23 + 4 + 5 + 6 + 7 + 8 + 9$
$13 = 1 - 23 + 4 - 56 + 78 + 9$	$63 = 1 + 23 + 4 + 5 + 6 + 7 + 8 + 9$
$14 = 12 - 3 - 45 + 67 - 8 - 9$	$64 = 1 + 2 + 3 + 4 + 5 \times 6 + 7 + 8 + 9$
$15 = 123 - 45 + 6 - 78 + 9$	$65 = 12 + 3 + 4 \times 5 + 6 + 7 + 8 + 9$
$16 = 1 - 2 + 34 + 5 + 67 - 89$	$66 = 1 \times 2^{\{3\}} + 4 + 5 \times 6 + 7 + 8 + 9$
$17 = 1^{\{234567\}} \times 8 + 9$	$67 = 1 + 2^{\{3\}} + 4 + 5 \times 6 + 7 + 8 + 9$
$18 = 1^{\{234567\}} + 8 + 9$	$68 = 1 \times 2 + 3 \times 4 + 5 \times 6 + 7 + 8 + 9$
$19 = 12 + 34 - 5 + 67 - 89$	$69 = 1 + 2 + 3 \times 4 + 5 \times 6 + 7 + 8 + 9$
$20 = 12 + 3 - 45 + 67 - 8 - 9$	$70 = 1^{\{2\}} + 34 + 5 + 6 + 7 + 8 + 9$
$21 = 1 - 23 - 45 + 6 - 7 + 89$	$71 = 1 \times 2 + 34 + 5 + 6 + 7 + 8 + 9$
$22 = 1 - 23 + 4 - 56 + 7 + 89$	$72 = 1 + 2 + 34 + 5 + 6 + 7 + 8 + 9$
$23 = 1 + 2 - 3 + 45 + 67 - 89$	$73 = 12 + 3 + 4 + 5 \times 6 + 7 + 8 + 9$
$24 = 1^{\{23456\}} \times 7 + 8 + 9$	$74 = 1 + 2 + 3 + 4 + 5 + 6 \times 7 + 8 + 9$
$25 = 1^{\{23456\}} + 7 + 8 + 9$	$75 = 12 \times 3 + 4 + 5 + 6 + 7 + 8 + 9$
$26 = 12 - 3 + 4 - 56 + 78 - 9$	$76 = 1 \times 2^{\{3\}} + 4 + 5 + 6 \times 7 + 8 + 9$
$27 = 12 - 3 - 45 - 6 + 78 - 9$	$77 = 1^{\{2\}} + 3 \times 4 + 5 + 6 \times 7 + 8 + 9$
$28 = 12 + 3 - 4 - 5 - 67 + 89$	$78 = 12 + 3 \times 4 + 5 \times 6 + 7 + 8 + 9$
$29 = 12 + 34 + 5 + 67 - 89$	$79 = 1 + 2 + 3 \times 4 + 5 + 6 \times 7 + 8 + 9$
$30 = 1^{\{2345\}} \times 6 + 7 + 8 + 9$	$80 = 1 \times 2 + 3 + 45 + 6 + 7 + 8 + 9$
$31 = 1^{\{2345\}} + 6 + 7 + 8 + 9$	$81 = 1 + 2 + 3 + 45 + 6 + 7 + 8 + 9$
$32 = 12 - 3 + 45 + 67 - 89$	$82 = 1 + 2 \times 3 + 45 + 6 + 7 + 8 + 9$
$33 = 12 + 34 + 56 - 78 + 9$	$83 = 12 + 3 + 4 + 5 + 6 \times 7 + 8 + 9$
$34 = 123 + 4 - 5 - 6 + 7 - 89$	$84 = 1 \times 2 + 3 + 4 \times 5 + 6 \times 7 + 8 + 9$
$35 = 1234 \times 5 + 6 + 7 + 8 + 9$	$85 = 1 + 2 + 3 + 4 \times 5 + 6 \times 7 + 8 + 9$
$36 = 1234 + 5 + 6 + 7 + 8 + 9$	$86 = 1 + 2 + 3 + 4 + 5 + 6 + 7 \times 8 + 9$
$37 = 1 + 23 - 4 - 5 - 67 + 89$	$87 = 1 + 2 \times 3 + 4 + 5 + 6 + 7 \times 8 + 9$
$38 = 12 + 3 + 45 + 67 - 89$	$88 = 12 + 3 \times 4 + 5 + 6 \times 7 + 8 + 9$
$39 = 123 \times 4 + 5 + 6 + 7 + 8 + 9$	$89 = 1 \times 2 + 3 + 4 + 56 + 7 + 8 + 9$
$40 = 123 + 4 + 5 + 6 + 7 + 8 + 9$	$90 = 12 + 3 + 45 + 6 + 7 + 8 + 9$
$41 = 12 - 34 - 5 + 67 - 8 + 9$	$91 = 1 + 2 + 34 + 5 \times 6 + 7 + 8 + 9$
$42 = 1^{\{2\}} \times 3 + 4 + 5 + 6 + 7 + 8 + 9$	$92 = 1 + 23 + 4 + 5 + 6 \times 7 + 8 + 9$
$43 = 1^{\{2\}} + 3 + 4 + 5 + 6 + 7 + 8 + 9$	$93 = 1 + 2 + 3 \times 4 \times 5 + 6 + 7 + 8 + 9$
$44 = 1 \times 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9$	$94 = 1 \times 2 + 3 \times 4 + 56 + 7 + 8 + 9$
$45 = 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9$	$95 = 12 + 3 + 4 + 5 + 6 + 7 \times 8 + 9$
$46 = 1 + 2 \times 3 + 4 + 5 + 6 + 7 + 8 + 9$	$96 = 1 \times 2 + 3 + 4 \times 5 + 6 + 7 \times 8 + 9$
$47 = 1 \times 2^{\{3\}} + 4 + 5 + 6 + 7 + 8 + 9$	$97 = 1 + 2 + 3 + 4 \times 5 + 6 + 7 \times 8 + 9$
$48 = 1 + 2^{\{3\}} + 4 + 5 + 6 + 7 + 8 + 9$	$98 = 1 \times 23 + 45 + 6 + 7 + 8 + 9$
$49 = 1 \times 2 + 3 \times 4 + 5 + 6 + 7 + 8 + 9$	$99 = 1 + 2 + 3 + 4 + 5 + 67 + 8 + 9$
$50 = 1 + 2 + 3 \times 4 + 5 + 6 + 7 + 8 + 9$	$100 = 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 \times 9$

Note: Believe it or not, this table can continuously go on, 101, 102, to number 11111