



THE DOZENAL SOCIETY OF AMERICA

DOZENAL DIVISIBILITY TESTS

QUICK GUIDE

by Treisaran

Divisor Tests	
Divisible by	If ends in
2	0, 2, 4, 6, 8, or ɔ
3	0, 3, 6, 9
4	0, 4, 8
6	0, 6
10	0

Two-Digit Multiples of 5
00 05 0ɔ 13 18 21 26 2ɛ 34 39 42 47
50 55 5ɔ 63 68 71 76 7ɛ 84 89 92 97
ɔ0 ɔ5 ɔɔ ɛ3 ɛ8

Split, Promote, Discard (SPD)	
Divisibility by 5	
1.	<i>Split</i> the last two digits off, leaving two numbers.
2.	<i>Promote</i> the second number to the nearest multiple of 5 (add or subtract).
3.	Add or subtract the same amount from the first number.
4.	<i>Discard</i> the right number; repeat 1–3 with the left.
5.	Continue until the left number is one or two digits.
6.	If this number is divisible by 5, the original is also; if not, the original is not.

Regular Tests	
Divisible by	If
8	Second-to-last digit divides by 2 and last is 0 or 8 Second-to-last digit doesn't divide by 2 and last is 4
9	Second-to-last digit is 0, 3, 6, or 9 and last is 0 or 9 Second-to-last digit is 1, 4, 7, or ɔ and last is 6 Second-to-last digit is 2, 5, 8, or ɛ and last is 3.
14	Last two digits are a multiple of 14
28	Third-last digit divides by 2 and last two are 00, 28, 54, 80, or ɔ8 Third-last digit doesn't divide by 2 and its last two are 14, 40, 68, or 94

Two-Digit Multiples of 14
00 14 28 40 54 68 80 94 ɔ8

Compound Tests	
Divisible By	If
ɔ	Divisible by both 2 and 5
13	Divisible by both 3 and 5

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