

Divisibility Dreams

A number is *exactly* divisible by:

- If it is even (ends in 0, 2, 4, 6, 8) [976].
- If its SOD (Sum Of Digits) is divisible by 3 [546: $5+4+6 = 15$].
- If it is even and its last 2 digits = 00 [300] or are divisible by 4 [316].
- If it ends in 0 [230] or 5 [765].
- If it follows rules for both 2 and 3 [462: $4+6+2 = 12$].
- If its **1st digit/s** minus twice its **last digit** = 0 [147: $14 - (2 \times 7) = 14 - 14 = 0$] or is divisible by 7 [91: $9 - (2 \times 1) = 9 - 2 = 7$].
* To seek 7 is *futile* (first minus twice last).
- If it is even and its last 3 digits = 000 [5000] or are divisible by 8 [3888] or twice the **first two** of the 3 digits plus the **last** is divisible by 8 [3152: $(2 \times 15) + 2 = 30 + 2 = 32$]. * He ate(8) & was too full (twice first plus last).
- If its SOD (Sum Of Digits) is divisible by 9 [2754: $2+7+5+4 = 18$].
- If it ends in 0 [6370].
- If $SOD(\text{odd}) - SOD(\text{even}) = 0$ [572: $(5+2) - 7 = 7 - 7 = 0$] or is divisible by 11 [2816: $(2+1) - (8+6) = 3 - 14 = -11$].
- If it follows rules for both 4 and 3 [924: $9+2+4 = 15$].

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