

1.  $321 \checkmark 3+2+1=6$

$32 \checkmark$  even

$3 \checkmark$  a number

2.  $14(32) \checkmark$  even and  $32$  in  $4$ 's

$143 \times$  not in  $3$ 's

$14 \checkmark$  even

3.  $12345 \checkmark$  last digit in the  $5$ 's

$12(34) \times$  not in  $4$ 's

same but with  $5$

odd

even

odd

even

Has to be in this order to be divisible by  $2$  and  $4$

These matter for  $2$ 's and  $4$ 's because every multiple of  $4$  is even

$12, 24, 32$  are the only multiples of  $4$  which can be made out of  $1, 2, 3, 4$ .

$1432$  works for both  $2$  and  $4$  because it works in the right order and the  $2$ nd and last digit are even.  
The last two digits must be in the  $4$ 's.

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