The sum of even numbers is even.
2+2=4 $6+8=14$
What is an even number?
ends in 0,2,4,6,8
Suppose X and y are even numbers.
X= d,dzdn dn= one of 0,2,1,6,8
y = s,s,sk sx = one of 0,2,4,6,8
X+ y = u, · Un Un= ones digit of dn+Sx
is ur one of 0,2,4,6,8?
Ur is the ones digit of one of
Her Sums 0+0 2+0 0+2 2+2 0+2
`_
Bother definition: an integer X is even if X=2y for some integer y.
X is even if X=24 for some integer y.
Stos: Emn
5 6ner
Then X = 24 for some y y & are unlegers 2 = 24 for some K

X+Z=2y+2k=2(y+k)X+Z is 2(y+k) so X+Z is even.