When Clara totaled her scores, she inadvertently reversed the units digit and the tens digit of one score. By which of the following might her incorrect sum have differed from the correct one?

(A) 45

(B) 46

(C) 47

(D) 48

(E) 49

IF the correct number was xy = 10x + ythe correct number was xy = 10x + yto solve the so

then the incorrect number was yx = 10y + x 10y + x 10y + x

We can write the difference between them as

10x + y - (10y + x) = 9x - 9y= 9(x-y)

hence the difference is a multiple of 9. The only one of the multiple choice oftions which satisfies this criterion is A-45