

38 + 56 = 94. Prove it three ways.

$56 \xrightarrow{+10} 66 \xrightarrow{+10} 76 \xrightarrow{+10} 86 \xrightarrow{+1} 87 \xrightarrow{+1} 88 \xrightarrow{+1} 89 \xrightarrow{+1} 90 \xrightarrow{+1} 91 \xrightarrow{+1} 92 \xrightarrow{+1} 93 \xrightarrow{+1} 94$

OR

$56 \xrightarrow{+30} 86 \xrightarrow{+4} 90 \xrightarrow{+4} 94$

Check: $56 + 30 = 86$
 $86 + 4 = 90$
 $90 + 4 = 94$

$38 + 56$

informal recording

$80 + 14 = 94$

$38 + 56 = (30 + 8) + (50 + 6)$
 $= 80 + 14$
 $= 94$

Use place value to partition, then add the tens and ones separately.

Count forwards by tens, then ones using an empty number line.

$38 \xrightarrow{+2} 40 \xrightarrow{+50} 90 \xrightarrow{+4} 94$

Check: $38 + 2 = 40$
 $40 + 50 = 90$
 $90 + 4 = 94$

Add 2 to get to the next 10... a 'zero the hero' number. Add the tens, then add the ones.

$56 \xrightarrow{+40} 96 \xrightarrow{-2} 94$

check: $56 + 40 = 96$
 $96 - 2 = 94$

Add a 'nice number' to 56. But I added too much, so I subtracted.

$38 + 56 = 40 + 54$
 $= 94$

'steal' 2 from 56 to make a 'nice number'. Then add the new numbers.