Dealing with Declination

Example declination diagram

Magnetic north is 10 degrees west of true north
To correct a TRUE bearing (e.g. 30) to MAGNETIC, We need to rotate counterclockwise to correct
So declination is ADDED to the magnetic bearing
WEST IS BEST, SO ADD
30 + 10 = 40
For magnetic to true, do the opposite (SUBTRACT)

Magnetic north is 10 degrees east of true north
To correct a TRUE bearing (e.g. 30) to MAGNETIC, We need to rotate clockwise to correct
So declination is SUBTRACTED from the true bearing
EAST IS LEAST, SO SUBTRACT
30 – 10 = 20
For magnetic to true, do the opposite (ADD)
Quick solution

- Remember:
  1. START WITH THE TRUE BEARING (map to compass)
  2. WEST IS BEST ADD: EAST IS LEAST SUBTRACT
  3. NOTE THAT YOU MAY GO OVER 360, IF SO JUST SUBTRACT 360 FROM RESULT
  4. TO START WITH MAGNETIC NORTH BEARINGS, DO THE OPPOSITE