

## Mental Math Example 1



Average upwind headings: starboard tack - 060°; port tack - 140° (given)

Average wind direction: 100° ( $60 + 140 = 200$ ;  $200/2 = 100$ ) OR ( $140 - 60 = 80$ ;  $60 + \frac{1}{2}(80) = 100$ )

Tacking angle: 80° ( $140 - 60 = 80$ )

Square line bearing on port: 190° ( $100 + 90 = 190$ )

Square line bearing on starboard: 010° ( $100 - 90 = 10$ )

Actual line bearing is 020° when sailing on starboard.

Favored end (right or left): Left end is favored. (Square line bearing on starboard is 010°; 020° is higher, so left end is favored)

Degrees favored: 10° favor ( $020 - 010 = 10$ )