November 9th

The distance between two towns A and B is 360 miles.
A cyclist leaves A for B at an average speed of 12mph
Another cyclist leaves B for A at an average speed of 20mph.

Where and when will the two cyclists meet?

At time t:

Cyclist 1 is *12t* miles from A

Cyclist 2 is *360-20t* miles from A

∴ 12t = 360 -20t

∴ 32t = 360

∴ t = 11.25 hours

**They meet after 11 ¼ hours, 135 miles from A**