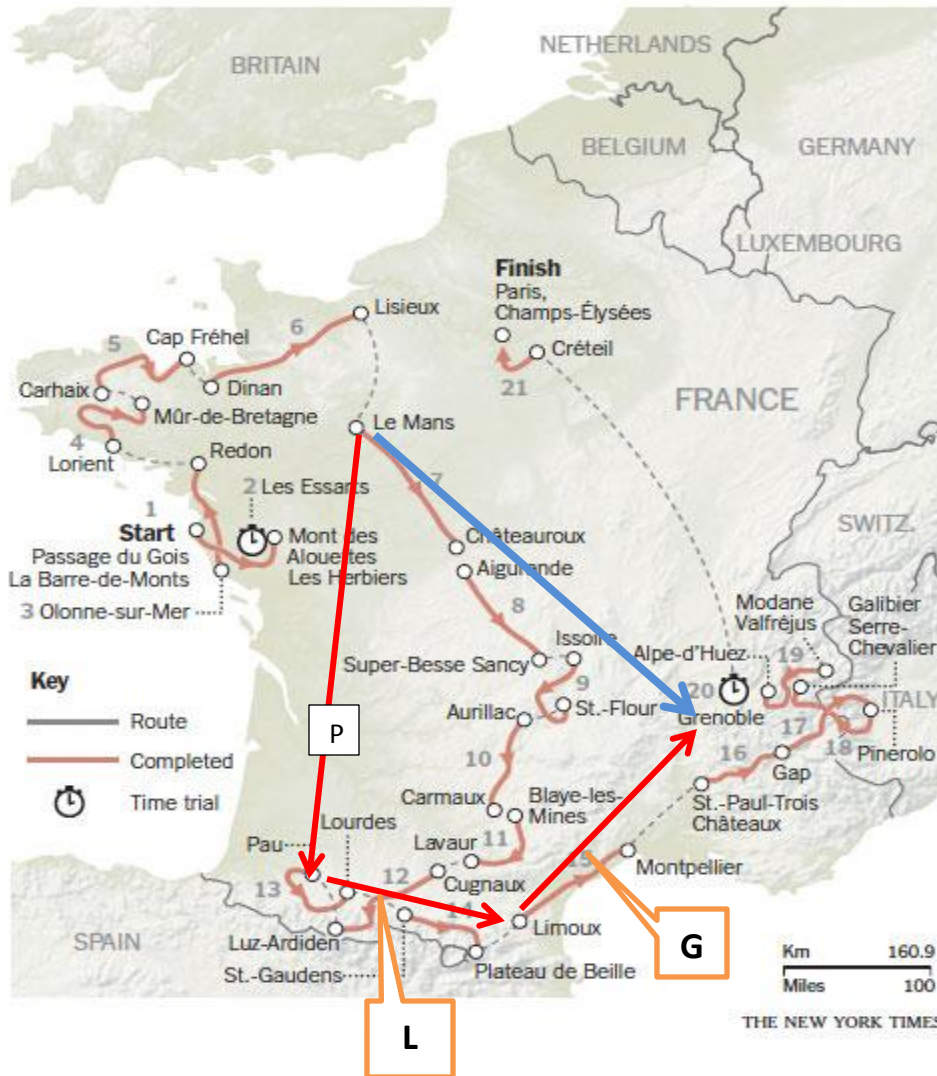


# RESULTANT VECTORS

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## TOUR DE FRANCE 2011



**INTRODUCTION:** Le Mans to Pau(vector P) is 400 miles @  $15^\circ$  West of South.

Pau to Limoux(vector L) is 150 miles @  $10^\circ$  South of East.

Limoux to Grenoble(vector G) is 300 miles @  $53^\circ$  North of East.

**QUESTION:** Find resultant Displacement LeMans to Grenoble(blue line in graphic)? Show how you found the components of all the three vectors: P, L, & G.

**ANSWER:** ~ 283.51 miles ,  
~  $37.56^\circ$  south of east