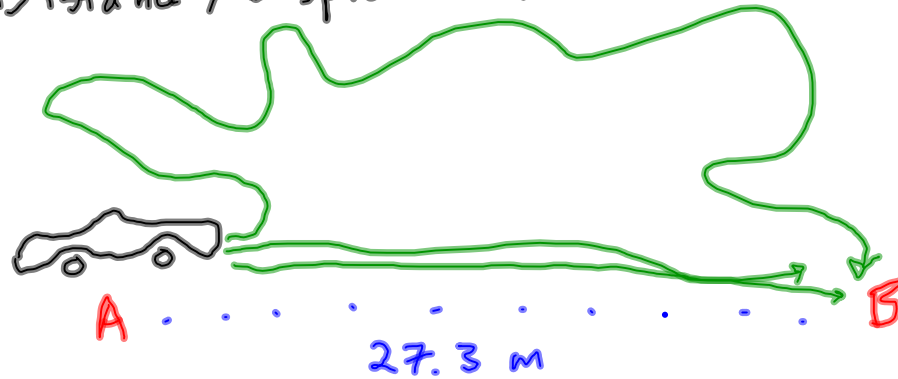


Distance / Displacement:



Velocity — how quickly an object moves —
 $\text{DISPLACEMENT} / \text{TIME}$

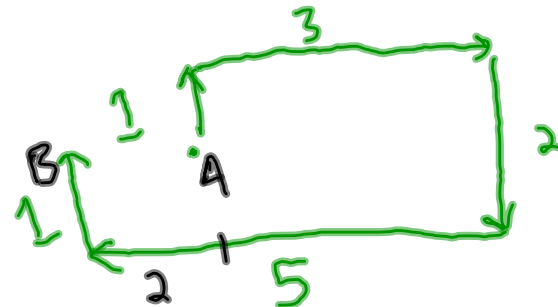
How do you find displacement
if an object is not moving
in a straight line?

Mathematically (Draw a picture first)

Riley & I go walkin'.

We go one block north, 3 blocks
east, 2 blocks south, 5 blocks
west, 1 block north. = 12 blocks (dist.)

Displacement?



Displacement = 2 blocks west

Logic:

Look at the problem! Somewhere it may give you a hint.

We go walkin' again.

12.36 m @ 76.41°

4.12 m @ 271.89°

11.29 m @ 131.7°

We end up four blocks from home.

Displacement = 4 blocks