What is your average velocity if you drive a distance of 306 km at a speed of 40 km/h, then the same distance at a speed of 62 km/h?

$$v = \frac{S}{t}$$

where v - an average speed, S - a total distance, t - a total time.

The total distance equals:

$$S = 306 \, km + 306 \, km = 612 \, km$$

The total time equals:

$$t = \frac{306 \, km}{40 \frac{km}{h}} + \frac{306 \, km}{62 \frac{km}{h}} = 12.59 \, h$$

Therefore:

$$v = \frac{612 \ km}{12.59 \ h} = 48.6 \frac{km}{h} \cong 49 \frac{km}{h}$$

Answer: $49 \frac{km}{h}$