

## Lesson 9 – Questions

1. Evan drove 308km in the same time Meghan drove 329km. If Meghan drove on average 6km/h faster than Evan, calculate her average speed and the time taken for the journey.
2. Erin Airlines has a fleet of airplanes whose average speed is 4 times the average speed of the Derailer passenger train. A Derailer train requires 12 hours more than an Erin airplane to travel a distance of 2000km. Calculate the average speed of each mode of transport.
9. A plane flew from Victoria to Calgary, a flying distance of 1260km. On the return journey, due to a strong headwind, the average flying speed was 90km/hr slower than on the outward journey. The time taken for the return journey was 20 minutes more than for the outward journey.
  - a) Calculate the time taken for the journey from Victoria to Calgary.
  - b) Calculate the average speed of the journey from Calgary to Victoria
10. Kelcie drove from Edmonton Airport to downtown Calgary, a distance of 340km, in the same time Nick drove from Calgary Airport to downtown Edmonton, a distance of 360km. Nick's average speed was 6km/h faster than Kelcie's average speed.

If Nick's average speed is denoted by  $s$  km/h, then the equation which can be used to determine the value of  $s$  is:

A.  $\frac{340}{s} = \frac{360}{s-6}$

B.  $\frac{340}{s} = \frac{360}{s+6}$

C.  $\frac{340}{s-6} = \frac{360}{s}$

D.  $\frac{340}{s+6} = \frac{360}{s}$