The fastest speed of the car
in 1st gear is 28 km h⁻¹
in 6th gear is 115 km h⁻¹
Given that the fastest speed of the car in successive gears is modelled by an arithmetic sequence,
(a) find the fastest speed of the car in 3rd gear.

5. A car has six forward gears.

Given that the fastest speed of the car in successive gears is modelled by a **geometric sequence**,

(b) find the fastest speed of the car in 5th gear.