QUESTION **1**   Complete the following sentences.

a   320 km in 5 hours is a rate of _____ per hour.

b   48 books bought for $360 is at the rate of _____ per book.

c   If 900 litres of water flows through a tap in 2 hours, it is a rate of _____ per minute.

d   Richard works for 10 hours and is paid $145. His rate of pay is _____ per hour.

e   5 kg of peas cost $12.50, which equals _____ per kg.

QUESTION **2**   Complete the equivalent rates.

a   90 km/h = _____ km/min   b   10 L/h = _____ L/day   c   8 m/min = _____ m/h

d $3/min = _____ $/h   e   20 mL/min = _____ mL/h   f   30°/min = _____ °/second

QUESTION **3**

a   Michael drives 180 km in 3 hours. Find his average speed. _____

b   Change 120 km/h into km/min. _____

c   Change 180 km/h into m/s. _____

d   John delivered 540 bottles of milk every morning between
    5:00 am and 9:00 am. Find his hourly rate of delivery. _____

e   A car travels at the speed of 25 m/s. How many kilometres does it travel in 1 hour? _____

QUESTION **4**

a   A car travels 600 km on a journey and covers this distance in
    in 6 hours and 15 minutes. Calculate the average speed per hour. _____

b   A tree grows to a height of 32.4 metres over a period of $8\frac{1}{2}$ years.
    What is the average annual growth rate in metres per year? _____

c   The distance between two towns is 90 km. A bus driver averages
    30 km/h in heavy traffic in one direction and 45 km/h on the return trip.
    Calculate the total time taken and the average speed for the total journey. _____