

Exercise 7.1

answers on p. 428

1. Copy and complete the following.

- (a) If a car travels 100 km in 4 hours, the rate of travel is 25 km/h.
 (b) If one dozen eggs is sold for \$2.40, the rate is 20 cents per egg.
 (c) If a tap fills a 450-litre tank with water in 1 hour, the water flows at the rate of 7.5 litres per minute.
 (d) If \$24.00 is charged for 120 kWh of electricity consumed, the rate is 20 cents/kWh.

3. If a car travels 150 km on 15 l of petrol, what is the rate of petrol consumption in km/l? What is this rate in l/100 km?

10 km/L10L/100 km

5. If an aeroplane travels at a speed of 450 km/h, how many metres does it travel in 10 s?

1250 m

7. Copy and complete the following.

(a) 30 km/h = 83 1/3 cm/s(b) \$100 per km = 10 cents per m(c) \$2.50 per litre = 0.25 cents per ml

9. (a) If the average speed of a current is 1.5 m/s, find its speed in km/h.
 (b) A train passes a station at 30 km/h. Find its speed in m/s.
 (c) If water flows from a pipe at 200 cm/s, express the rate of flow in m/min.

5.4 km/h8 1/3 m/s120 m/min