

Exercise 7.1

answers on p. 428

2. From 10 00 to 12 00, the rise in temperature is 4°C and from 15 00 to 17 00, the fall in temperature is 6°C . What is the average rate of
- (a) the rise in temperature per hour,
 - (b) the fall in temperature per hour?
4. If 150 g of fertiliser is needed to dress an area of 6 m^2 , express this rate in
- (a) g/m^2 ,
 - (b) kg/m^2 .
6. A clock is slow by 300 s in 1 week. How many seconds will it lose in 14 days?
8. A motor cyclist took $1\frac{1}{2}\text{ h}$ to travel 143 km from town P to town Q . He then took another $1\frac{1}{2}\text{ h}$ to reach his destination, town R , which was 97 km from town Q . Find his average speed for the whole journey.
10. A motorist travelled from town X to town Y at an average speed of 90 km/h. After travelling $\frac{1}{3}$ of the journey in 45 min, he continued to travel another 120 km to reach town Y . Find his average speed for the second part of the journey.