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, 2°C/h
   (b) the fall in temperature per hour? 3°C/h

4. If 150 g of fertiliser is needed to dress an area of 6 m^2, express this rate in
   (a) g/m^2, 25 g/m^2
   (b) kg/m^2. 0.025 kg/m^2

6. A clock is slow by 300 s in 1 week. How many seconds will it lose in 14 days?

   600 s

8. A motor cyclist took $1\frac{1}{2}$ h to travel 143 km from town P to town Q. He then took another $1\frac{1}{2}$ h to reach his destination, town R, which was 97 km from town Q. Find his average speed for the whole journey.

   80 km/h

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.

    96 km/h

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