133

#### Practice: pages 20-25

- 1 Answer is B. From experiments 1 and 3 the order with respect to Cl<sub>2</sub> is 1 (the rate quadruples as the concentration doubles. Therefore, in an experiment using 0.80 mol dm<sup>-1</sup> of CO and 0.20 mol dm<sup>-2</sup> of Cl<sub>2</sub>, the rate will be halved from the 6.4 × 10<sup>-04</sup> mol dm<sup>-3</sup> min<sup>-1</sup> obtained in experiment 1. (There is no need to work out the order with respect to CO.)
- 2 Answer is B. The concentration halves every 120 s. So, the sequence of half-lives is 2.4 → 1.2 → 0.6 → 0.3 → 0.15; that is four half-lives which is 4 × 120 s. [1]
- Answer is C. For a zero order reaction, the rate of decomposition is a constant.
- 4 Answer is A. the decomposition is Rate = k[X]<sup>2</sup> [1]
  - From the data given,  $0.016 = k[1]^2$  [1]
  - Therefore,  $k = 0.016 \text{ s}^{-1}$ . If  $\{X\} = 0.25 \text{ mol dim}^{-1}$ , rate = 0.016 $[0.25]^2$ = 0.001 dm<sup>3</sup> mol<sup>-2</sup> s<sup>-2</sup>
- 6 Answer is D. I<sub>2</sub> has an order of zero and is not involved in the rate-determining step. Therefore, it can be ignored. In D. [0.1](2) has a value that is greater than [0.1](1).
- 7 Answer is C. The slow step + the fast step must give the overall equation. I must, therefore, be removed in the fast step in a reaction with G, and some J and K must be formed. [1
- 8 Answer is B. The rate equation is Rate = k[halide] so statements 1 and 2 are correct. Raising the temperature will increase the rate of reaction by allowing more molecules to exceed the activation energy, but the activation energy is fixed and will not change. [1]
- 9 Answer is D. Increasing the amount of ozone present does not change the order with respect to ozone. A large excess is not necessary to ensure enough ozone is present. The purpose of a large excess is to make sure that during the reaction its concentration is virtually constant Therefore, only statement 3 is correct.
- 10 Answer is A. Experiments 2 and 3 give the order with respect to X as zero. Experiments 1 and 2 give the order with respect to Y as 2. So statements 1 and 2 are correct. The rate constant is calculated from a set of results, for example, experiment 1 gives 0.08 = k[0.10]<sup>2</sup>.
- So  $k = 8.0 \text{ dm}^3 \text{ mmol}^{-1} \text{ s}^{-1}$  and statement 3 is, therefore, correct. [1]
- 11 a)  $2N_2O_3(g) \rightarrow 4NO_2(g) + O_2(g)$  [1]
  - b) i) For every 2 mol of N<sub>2</sub>O<sub>3</sub> that reacts 4 mol of NO<sub>2</sub> is formed. Therefore, the rate of formation of NO<sub>3</sub> is twice as fast as the loss of N<sub>2</sub>O<sub>3</sub>, i.e. 7.0 × 10<sup>-4</sup> mol dm<sup>-2</sup> s<sup>-1</sup>. [1]
    - For oxygen, the rate of formation will be  $\frac{1}{2}$  the rate of loss of N<sub>2</sub>O<sub>3</sub>. i.e.  $1.75 \times 10^{-6}$  mol dm<sup>-8</sup> s<sup>-6</sup>

# **Reaction Rate And Energy Reinforcement Answers**

**EW Minium** 

**Reaction Rate And Energy Reinforcement Answers:** 

## Reaction Rate And Energy Reinforcement Answers Book Review: Unveiling the Power of Words

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