

Practice: pages 20–25

- 1 Answer is B. From experiments 1 and 3 the order with respect to Cl_2 is 1 (the rate quadruples as the concentration doubles. Therefore, in an experiment using 0.80 mol dm^{-3} of CO and 0.20 mol dm^{-3} of Cl_2 , the rate will be halved from the $6.4 \times 10^{-24} \text{ mol dm}^{-3} \text{ min}^{-1}$ obtained in experiment 1. (There is no need to work out the order with respect to CO.) [1]
- 2 Answer is B. The concentration halves every 120 s. So, the sequence of half-lives is $2.4 \rightarrow 1.2 \rightarrow 0.6 \rightarrow 0.3 \rightarrow 0.15$; that is four half-lives which is $4 \times 120 \text{ s}$. [1]
- 3 Answer is C. For a zero order reaction, the rate of decomposition is a constant. [1]
- 4 Answer is A. the decomposition is $\text{Rate} = k[\text{X}]^2$ [1]
From the data given, $0.016 = k[1]^2$ [1]
Therefore, $k = 0.016 \text{ s}^{-1}$. If $[\text{X}] = 0.25 \text{ mol dm}^{-3}$, $\text{rate} = 0.016[0.25]^2$ [1]
 $= 0.001 \text{ dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ [1]
- 5 Answer is B. The overall order is 2, so the units are $\frac{1}{\text{concentration} \times \text{s}}$. [1]
- 6 Answer is D. I_2 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 $[0.1][1]$. [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 $\text{Rate} = k[\text{halide}]$ 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. [1]
- 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 $0.08 = k[0.10]^2$.
So $k = 8.0 \text{ dm}^3 \text{ mmol}^{-2} \text{ s}^{-1}$ and statement 3 is, therefore, correct. [1]
- 11 a) $2\text{N}_2\text{O}_5(\text{g}) \rightarrow 4\text{NO}_2(\text{g}) + \text{O}_2(\text{g})$ [1]
- b) i) For every 2 mol of N_2O_5 that reacts 4 mol of NO_2 is formed. Therefore, the rate of formation of NO_2 is twice as fast as the loss of N_2O_5 , i.e. $7.0 \times 10^{-4} \text{ mol dm}^{-3} \text{ s}^{-1}$. [1]
- ii) For oxygen, the rate of formation will be $\frac{1}{2}$ the rate of loss of N_2O_5 ,
i.e. $1.75 \times 10^{-4} \text{ mol dm}^{-3} \text{ s}^{-1}$ [1]

Reaction Rate And Energy Reinforcement Answers Key

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Reaction Rate And Energy Reinforcement Answers Key:

Reaction Rate And Energy Reinforcement Answers Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. Reaction Rate And Energy Reinforcement Answers Key : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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