

Topic 1

Numbers

1 Exercise 11.1(a)

- (a) Evaluate $3 + 25 \div 2$. [1]
 (b) Express $17\frac{1}{2}\%$ as a decimal. [1]

Thinking Process

- (a) \mathcal{P} Do the division of 25 by 2 first and then add.
 (b) \mathcal{P} Write $17\frac{1}{2}$ as 17.5 and divide it by 100.

Solution

- (a) $3 + 25 \div 2$
 $= 3 + \frac{25}{2}$
 $= \frac{6 + 25}{2}$
 $= \frac{31}{2} = 15\frac{1}{2}$ Ans.
 (b) $17\frac{1}{2}\%$
 $= 17.5 \times \frac{1}{100} = 0.175$ Ans.

Exercise 11.1(b)

Evaluate

- (a) $\frac{1}{4} + \frac{1}{7}$. [1]
 (b) $1\frac{7}{8} + \frac{3}{16}$. [1]

Thinking Process

- (a) \mathcal{P} Make common denominator. Add.
 (b) \mathcal{P} Write $1\frac{7}{8}$ as improper fraction. Multiply and reduce.

Solution

- (a) $\frac{1}{4} + \frac{1}{7}$
 $= \frac{7 + 4}{28} = \frac{11}{28}$ Ans.

$$\begin{aligned} \text{Ans } 1\frac{7}{8} + \frac{3}{16} \\ &= \frac{15}{8} + \frac{3}{16} \\ &= \frac{15}{8} + \frac{3}{16} = 1\frac{18}{16} \text{ Ans.} \end{aligned}$$

3 Exercise 11.2

It is given that $\frac{2}{3} = \frac{x}{d}$ and $\frac{2}{3}$ are equivalent

fractions. Find the value of d and the value of x . [1]

Thinking Process

\mathcal{P} It is given that all three fractions are equal. Take two fractions at a time and solve for the values of d and x .

Solution

Consider $\frac{2}{3}$ and $\frac{x}{d}$.
 As the fractions are equal
 $\therefore \frac{2}{3} = \frac{x}{d}$
 $2d = 3x$
 $d = \frac{3x}{2} = 12$ Ans.

Now consider $\frac{2}{3}$ and $\frac{28}{30}$

$$\begin{aligned} \frac{2}{3} &= \frac{28}{30} \\ 28 &= 3x \\ x &= \frac{28}{3} = 26 \text{ Ans.} \end{aligned}$$

4 Exercise 11.3

(a) Write the following in order of size, starting with the smallest.

$$\frac{66}{100}, 0.6, 0.67, \frac{666}{1000}$$
 [1]

(b) The distance of Saturn from the Sun is 1507 million kilometres. Express 1507 million in standard form. [1]

Thinking Process

(a) \mathcal{P} Express the fractions as decimals.

Solution

- (a) Writing in decimal form we have
 $0.66, 0.6, 0.67, 0.666$
 \therefore starting from the smallest
 $0.6, \frac{66}{100}, \frac{666}{1000}, 0.67$ Ans.

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Table of Contents Xtreem Papers For Olevel Exam

1. Understanding the eBook Xtreem Papers For Olevel Exam
 - The Rise of Digital Reading Xtreem Papers For Olevel Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Xtreem Papers For Olevel Exam
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Xtreem Papers For Olevel Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Xtreem Papers For Olevel Exam
 - Personalized Recommendations
 - Xtreem Papers For Olevel Exam User Reviews and Ratings
 - Xtreem Papers For Olevel Exam and Bestseller Lists

5. Accessing Xtreem Papers For Olevel Exam Free and Paid eBooks
 - Xtreem Papers For Olevel Exam Public Domain eBooks
 - Xtreem Papers For Olevel Exam eBook Subscription Services
 - Xtreem Papers For Olevel Exam Budget-Friendly Options
6. Navigating Xtreem Papers For Olevel Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Xtreem Papers For Olevel Exam Compatibility with Devices
 - Xtreem Papers For Olevel Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Xtreem Papers For Olevel Exam
 - Highlighting and Note-Taking Xtreem Papers For Olevel Exam
 - Interactive Elements Xtreem Papers For Olevel Exam
8. Staying Engaged with Xtreem Papers For Olevel Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Xtreem Papers For Olevel Exam
9. Balancing eBooks and Physical Books Xtreem Papers For Olevel Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Xtreem Papers For Olevel Exam
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Xtreem Papers For Olevel Exam
 - Setting Reading Goals Xtreem Papers For Olevel Exam
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Xtreem Papers For Olevel Exam
 - Fact-Checking eBook Content of Xtreem Papers For Olevel Exam
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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