

- 5 Paul buys a number of large sacks of fertiliser costing \$x each.

He spends \$27.

- (a) Write down, in terms of  $x$ , an expression for the number of large sacks which Paul buys.

$$\frac{27}{x}$$

Answer(a)  $\frac{27}{x}$  [1]

- (b) Rula buys a number of small sacks of fertiliser.  
Each small sack costs \$2 less than a large sack.  $\rightarrow x-2$  each  
Rula spends \$25.

Write down, in terms of  $x$ , an expression for the number of small sacks which Rula buys.

$$\frac{25}{x-2}$$

Answer(b)  $\frac{25}{x-2}$  [1]

- (c) Rula buys 4 more sacks than Paul.  
Write down an equation in  $x$  and show that it simplifies to  $2x^2 - 3x - 27 = 0$ .

Answer(c)

$$\begin{aligned} \frac{25}{x-2} &= \frac{27}{x} + 4 & / x(x-2) \\ 25x &= 27(x-2) + 4x(x-2) \\ 25x &= 27x - 54 + 4x^2 - 8x \\ 0 &= 4x^2 - 6x - 54 \\ 2x^2 - 3x - 27 &= 0 \end{aligned}$$

- (d) Solve  $2x^2 - 3x - 27 = 0$ .

$$a=2 \quad b=-3 \quad c=-27$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{-(-3) \pm \sqrt{3^2 - 4 \times 2(-27)}}{4}$$

$$\frac{3 \pm \sqrt{9 + 216}}{4} = \frac{3 \pm 15}{4}$$

Answer(d)  $x = \frac{9}{2}$  or  $x = -3$  [3]

- (e) Calculate the number of sacks which Paul buys.

$$\frac{27}{9/2} = 6$$

Answer(e) 6 [1]

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## **Table of Contents Igcse Xtreme Papers 2013 Mathematics Extended**

1. Understanding the eBook Igcse Xtreme Papers 2013 Mathematics Extended
  - The Rise of Digital Reading Igcse Xtreme Papers 2013 Mathematics Extended
  - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Xtreme Papers 2013 Mathematics Extended
  - 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 Igcse Xtreme Papers 2013 Mathematics Extended
  - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Xtreme Papers 2013 Mathematics Extended
  - Personalized Recommendations
  - Igcse Xtreme Papers 2013 Mathematics Extended User Reviews and Ratings
  - Igcse Xtreme Papers 2013 Mathematics Extended and Bestseller Lists
5. Accessing Igcse Xtreme Papers 2013 Mathematics Extended Free and Paid eBooks
  - Igcse Xtreme Papers 2013 Mathematics Extended Public Domain eBooks
  - Igcse Xtreme Papers 2013 Mathematics Extended eBook Subscription Services
  - Igcse Xtreme Papers 2013 Mathematics Extended Budget-Friendly Options
6. Navigating Igcse Xtreme Papers 2013 Mathematics Extended eBook Formats

- ePub, PDF, MOBI, and More
- Igcse Xtreme Papers 2013 Mathematics Extended Compatibility with Devices
- Igcse Xtreme Papers 2013 Mathematics Extended Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Igcse Xtreme Papers 2013 Mathematics Extended
  - Highlighting and Note-Taking Igcse Xtreme Papers 2013 Mathematics Extended
  - Interactive Elements Igcse Xtreme Papers 2013 Mathematics Extended
- 8. Staying Engaged with Igcse Xtreme Papers 2013 Mathematics Extended
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Igcse Xtreme Papers 2013 Mathematics Extended
- 9. Balancing eBooks and Physical Books Igcse Xtreme Papers 2013 Mathematics Extended
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Igcse Xtreme Papers 2013 Mathematics Extended
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Igcse Xtreme Papers 2013 Mathematics Extended
  - Setting Reading Goals Igcse Xtreme Papers 2013 Mathematics Extended
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Igcse Xtreme Papers 2013 Mathematics Extended
  - Fact-Checking eBook Content of Igcse Xtreme Papers 2013 Mathematics Extended
  - 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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