

- 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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**Alice Deignan, Duygu Candarli, Florence
Oxley**

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Table of Contents Maths Paper 4 Variant 4may June 2013

1. Understanding the eBook Maths Paper 4 Variant 4may June 2013
 - The Rise of Digital Reading Maths Paper 4 Variant 4may June 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 4 Variant 4may June 2013
 - 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 Maths Paper 4 Variant 4may June 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 4 Variant 4may June 2013
 - Personalized Recommendations
 - Maths Paper 4 Variant 4may June 2013 User Reviews and Ratings
 - Maths Paper 4 Variant 4may June 2013 and Bestseller Lists

5. Accessing Maths Paper 4 Variant 4may June 2013 Free and Paid eBooks
 - Maths Paper 4 Variant 4may June 2013 Public Domain eBooks
 - Maths Paper 4 Variant 4may June 2013 eBook Subscription Services
 - Maths Paper 4 Variant 4may June 2013 Budget-Friendly Options
6. Navigating Maths Paper 4 Variant 4may June 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 4 Variant 4may June 2013 Compatibility with Devices
 - Maths Paper 4 Variant 4may June 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 4 Variant 4may June 2013
 - Highlighting and Note-Taking Maths Paper 4 Variant 4may June 2013
 - Interactive Elements Maths Paper 4 Variant 4may June 2013
8. Staying Engaged with Maths Paper 4 Variant 4may June 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 4 Variant 4may June 2013
9. Balancing eBooks and Physical Books Maths Paper 4 Variant 4may June 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 4 Variant 4may June 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper 4 Variant 4may June 2013
 - Setting Reading Goals Maths Paper 4 Variant 4may June 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper 4 Variant 4may June 2013
 - Fact-Checking eBook Content of Maths Paper 4 Variant 4may June 2013
 - 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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