

HIGHLAND SECONDARY SCHOOL
2013 - TERM 1
GRADE 12 MATHS
TEST 2

Instructions: Answer all the 5 questions. Show all the working.

1. An unbiased coin is tossed and a fair die is thrown. What is the probability of the results being a Head and a 2?
 Answer: $\frac{1}{12}$ [2 marks]

2. A shopping basket contains 3 buns, 8 potatoes, 4 apples and 5 sweets. The basket dropped. What is the probability that

(a) A potato fell out?

Answer: $\frac{2}{5}$

[1 mark]

(b) An apple or potato fell out?

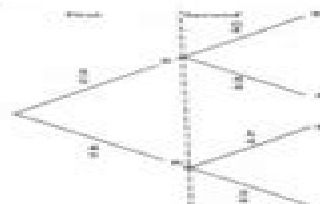
Answer: $\frac{3}{5}$

[2 marks]

3. A bag contains 1 blue bead and 4 red beads. A girl takes two beads at random from the bag, one after the other.

(a) Draw the probability tree diagram.

Answer:



[2 marks]

- (b) Find the probability that she has taken
 (i) Two red beads.
 (ii) One bead of each colour.

Answer: $\frac{3}{5}$

[2 marks]

Answer: $\frac{2}{5}$

[2 marks]

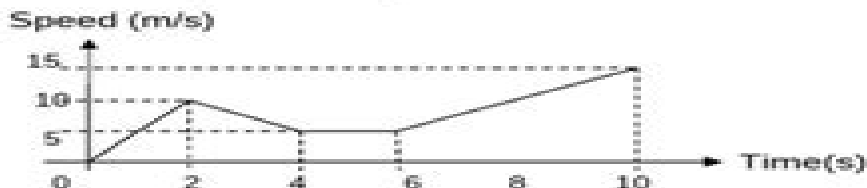
4. Write down the equation of the line shown in the figure below.



Answer: $m = -\frac{1}{2}$ [2 marks]

Answer: $y = -\frac{1}{2}x + 1$ [3 marks]

5. The graph shows the speed of an object over a time of 10 seconds.



Find

- (i) the acceleration during the first 2sec
 (ii) The deceleration in the second part
 (iii) The total distance travelled
 (iv) The average speed for the whole journey

Answer: 5m/s^2

[2 marks]

Answer: -2.5m/s^2

[2 marks]

Answer: 75 m

[4 marks]

Answer: 7.5m/s

[2 marks]

Maths Pexampler 2013 Grade 1sba

JG Myers



Maths Pexampler 2013 Grade 1sba:

Maths Pexampler 2013 Grade 1sba Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Maths Pexampler 2013 Grade 1sba**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Maths Pexampler 2013 Grade 1sba

1. Understanding the eBook Maths Pexampler 2013 Grade 1sba
 - The Rise of Digital Reading Maths Pexampler 2013 Grade 1sba
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Pexampler 2013 Grade 1sba
 - 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 Pexampler 2013 Grade 1sba
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Pexampler 2013 Grade 1sba
 - Personalized Recommendations
 - Maths Pexampler 2013 Grade 1sba User Reviews and Ratings
 - Maths Pexampler 2013 Grade 1sba and Bestseller Lists
5. Accessing Maths Pexampler 2013 Grade 1sba Free and Paid eBooks

- Maths Pexampler 2013 Grade 1sba Public Domain eBooks
 - Maths Pexampler 2013 Grade 1sba eBook Subscription Services
 - Maths Pexampler 2013 Grade 1sba Budget-Friendly Options
6. Navigating Maths Pexampler 2013 Grade 1sba eBook Formats
- ePub, PDF, MOBI, and More
 - Maths Pexampler 2013 Grade 1sba Compatibility with Devices
 - Maths Pexampler 2013 Grade 1sba Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Maths Pexampler 2013 Grade 1sba
 - Highlighting and Note-Taking Maths Pexampler 2013 Grade 1sba
 - Interactive Elements Maths Pexampler 2013 Grade 1sba
8. Staying Engaged with Maths Pexampler 2013 Grade 1sba
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Pexampler 2013 Grade 1sba
9. Balancing eBooks and Physical Books Maths Pexampler 2013 Grade 1sba
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Pexampler 2013 Grade 1sba
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Pexampler 2013 Grade 1sba
- Setting Reading Goals Maths Pexampler 2013 Grade 1sba
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Pexampler 2013 Grade 1sba
- Fact-Checking eBook Content of Maths Pexampler 2013 Grade 1sba
 - 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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