

## GRADE 9 MATHEMATICS NOVEMBER EXAMINATION PAPER 1

### QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression  $3x^2 + 2x + 5$  is: (1)

- A  $3x^2$
- B 2
- C 5
- D  $3x^2 + 2x$

1.2 How many terms are in the expression  $3x^2 + 2x + 5$ ? (1)

- A 1
- B 2
- C 3
- D 4

1.3 Determine the following two terms in the sequence:  $1, 3, 6, \dots$  (1)

- A 8; 9
- B 12; 15
- C 12; 18
- D 15; 21

1.4 Prime numbers that lie between 20 and 30: (1)

- A 23, 27, 29, 31
- B 23, 27, 29, 30
- C 23, 27, 29, 31
- D 23, 27, 29, 30

1.5  $\sqrt{37^2} =$  (1)

- A 37
- B 74
- C 13
- D 49

1.6 If  $x = 2$ , the value of  $3x^2 + 4x$  would be: (1)

- A 16
- B 20
- C 24
- D 32

6 x 1 = 6

### QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write  $245:15$  in its simplest form. (2)

2.2 It takes 12 days to build a house at a cost of R12 000.00. How many contractors, working at the same rate, will be needed to build the house in 4 days? (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed. (3)

2.4 Write the prime factors in exponential form of 270. (4)

2.5 Calculate the following: (3)

2.5.1  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

2.5.2  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

(3)  
(3)  
[16]

### QUESTION 3: EXPONENTS

3.1  $5^3 = \sqrt{5^2} + 5^2$  (2)

3.2  $6^{1/2}$  (2)

3.3  $\frac{2^3}{2^2}$  (2)

3.4  $\sqrt{2^2 + 2^2 + 2^2}$  (2)

(2)  
(2)  
(2)  
(2)  
[16]

# Mathematics Paper 1 March 2014 Memo

**Bruce Schneier**

## **Mathematics Paper 1 March 2014 Memo:**

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**Military Cost-Benefit Analysis** Francois Melese,Anke Richter,Binyam Solomon,2015-03-27 This is the first comprehensive book on Military Cost Benefit Analysis and provides novel approaches to structuring cost benefit and affordability analysis amidst an uncertain defense environment and cloudy fiscal prospects Lifting the veil on military Cost Benefit Analysis this volume offers several new practical tools designed to guide defense investments and divestments combined with a selection of real world applications The widespread employment of Cost Benefit Analysis offers a unique opportunity to transform legacy defense forces into efficient effective and accountable 21st century organizations A synthesis of economics statistics and decision theory CBA is currently used in a wide range of defense applications in countries around the world i to shape national security strategy ii to set acquisition policy and iii to inform critical investments in people equipment infrastructure services and supplies As sovereign debt challenges squeeze national budgets and emerging threats disrupt traditional notions of security this volume offers valuable tools to navigate the political landscape meet calls for fiscal accountability and boost the effectiveness of defense investments to help guarantee future peace and stability A valuable resource for scholars practitioners novices and experts this book offers a comprehensive

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