

**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  $2x^2 + 3x + 2$  is \_\_\_\_\_ (3)

A 3  
B 2  
C 4  
D 1

- 1.2 How many terms are in the expression  $2x^2 + 3x + 2$ ? \_\_\_\_\_ (3)

A 1  
B 2  
C 3  
D 4

- 1.3 Determine the following two terms in the sequence: \_\_\_\_\_ (3)

A 48; 56  
B 48; 57  
C 47; 56  
D 47; 57

- 1.4 Prime numbers that lie between 8 and 22: \_\_\_\_\_ (3)

A 11, 13, 17, 19, 23  
B 11, 13, 17, 19  
C 11, 13, 17, 19, 23  
D 11, 13, 17, 19

- 1.5  $\sqrt{324}$  is \_\_\_\_\_ (3)

A 18  
B 74  
C 18 and 74  
D 18

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

A 14  
B 16  
C 18  
D 20

6 x 1 = 6

**QUESTION 2: WHOLE NUMBERS & INTEGERS**

- 2.1 Write 345:15 in it's simplest form. \_\_\_\_\_ (2)

- 2.2 If 10 contractors can build a house in 10 days. 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 in km/h. \_\_\_\_\_ (3)

- 2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. \_\_\_\_\_ (4)

- 2.5 Calculate the following:  
2.5.1  $2 \frac{1}{2} \times 3 \frac{1}{2}$  \_\_\_\_\_ (3)  
2.5.2  $2 \frac{1}{2} \div 3 \frac{1}{2}$  \_\_\_\_\_ (3)  
[16]

**QUESTION 3: EXPONENTS**

- 3.1  $5^2 \times \sqrt{5} + 5^2$  \_\_\_\_\_ (2)

- 3.2  $5^2 \times 5^3$  \_\_\_\_\_ (2)

- 3.3  $\frac{5^2}{5^3}$  \_\_\_\_\_ (3)

- 3.4  $\sqrt{5^2} \times 5^3$  \_\_\_\_\_ (3)  
[10]

# Grade 9 Mathematics Exemplar Memo Nov2013

**Andrea Morgan**



**Grade 9 Mathematics Exemplar Memo Nov2013:**  
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