

**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 5

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, 21
- D 11, 13, 17, 19, 23

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 10
- B 12
- C 14
- D 16

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. \_\_\_\_\_ (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  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (3)
  - 2.5.2  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (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 November 2012 Memorandum Thutong

**G Psacharopoulos**



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