

**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, 17, 19, 23  
C 11, 13, 17, 19  
D 11, 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 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  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (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]

# Pixel Maths Mock Exam November 2014 Calculator Paper

**Lingjun Ying**



## **Pixel Maths Mock Exam November 2014 Calculator Paper:**

### **Putting the "Why" Back into Bone "Archytecture"** Phil Salmon, Daniel Chappard, Andrew Anthony

Pitsillides, 2017-07-27 A large literature exists on trabecular and cortical bone morphology. The engineering performance of bone implied from its 3d architecture is often the endpoint of bone biology experiments being clinically relevant to bone fracture. How and why does bone travel along its complex spatio temporal trajectory to acquire its architecture? The question why can have two meanings. The first teleological why is an architecture advantageous is the domain of substantial biomechanical research to date. The second etiological how did an architecture come about has received far less attention. This Frontiers Bone Research Topic invited contributions addressing this etiological why: what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures. One mechanism is proposed: chaotic nonlinear pattern formation (NPF) which underlies in a unifying way natural structures as disparate as trabecular bone, swarms of birds flying or shoaling fish, island formation, fluid turbulence and others. At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times lead to complex and structured patterns. This paradigm of growth and form leads to a profound link between bone regulation and its architecture: in bone, the architecture is the regulation. The former is the emergent consequence of the latter. Whatever mechanism does determine bone's developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two. This has implications as to how we understand the effect on bone of agents such as gene products or drugs. It may be for instance that the tuning of coupling between formation and resorption might be as important as the achievement of enhanced bone volume. The ten articles that were contributed to this Topic were just what we hoped for: a snapshot of leading edge bone biology research which addresses the question of how bone gets its shape. We hope that you find these papers thought provoking and that they might stimulate new ideas in the research into bone architecture, growth and adaptation and how to preserve healthy bone from gestation and childhood until old age.

## Decoding **Pixel Maths Mock Exam November 2014 Calculator Paper**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Pixel Maths Mock Exam November 2014 Calculator Paper**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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