

**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. _____ (3)

- 2.4 Write the number 48 in its prime factorised form. Write the prime factors in exponential form. _____ (4)

- 2.5 Calculate the following:
2.5.1 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
2.5.2 $2 \times 10^3 + 3 \times 10^2$ _____ (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]

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SJ Ball



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web fermat s last theorem also known as fermat s conjecture or wiles theorem states that no three positive integers x y z x y z satisfy $x^n + y^n = z^n$ for any integer $n > 2$ although a special case for $n = 4$ was proven by fermat himself using infinite descent and fermat famously wrote in the margin of one of his books in

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web this theorem showed that the area of a pythagorean triangle having integral sides cannot be a square integer this theorem leads to the proof of fermat s last theorem for the case $n = 4$ that is $x^4 + y^4 = z^4$ has no solutions fermat claimed to be able to prove the conjecture for $n = 3$ but published no proof

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web Jun 23 2022 according to Fermat's last theorem no three positive integers a, b, c satisfy the equation for any integer value of n greater than 2. For $n = 1$ and $n = 2$ the equation has infinitely many solutions. Some solutions for $n = 1$ are 2, 3, 5, 7, 13, 20, 56, 111, 109, 19. Some solutions for $n = 2$ are $c^2 = a^2 + b^2$.

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web Fermat's little theorem is the basis for the Fermat primality test and is one of the fundamental results of elementary number theory. The theorem is named after Pierre de Fermat who stated it in 1640. It is called the little theorem to distinguish it from Fermat's last theorem.

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web Fermat's last theorem states that $x^n + y^n = z^n$ has no non zero integer solutions for x, y, z when $n \geq 2$. Fermat wrote 'I have discovered a truly remarkable proof which this margin is too small to contain.' Fermat almost certainly wrote the marginal note around 1630 when he first studied Diophantus's *Arithmetica*.

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