Mental Computation

Year 10A Mathematics   End Term 2

Mental computation (End Term 2)

1 Spell Polynomials
2 Is $x - 1$ a factor of $x^3 + 2x^2 - 2x - 1$?
3 Simplify: $(2x^2 - 5x + 1) + (x^2 + 2x - 1)$
4 Expand: $2x^2(2x^2 - 3x - 1)$
5 Draw a tree diagram for tossing 3 coins
6 What is the quadratic formula?
7 Factorise $x^2 + 5x + 6$
8 What is the value of: $\text{Log}_2 16$
9 $^-2 - ^-5$
10 Evaluate 3^4?

3^4
$= 3 \times 3 \times 3 \times 3$
$= 81$

Mental computation (End Term 2)

1 Spell Quadratic
2 Is $x - 1$ a factor of $x^3 - 3x^2 - 2x + 4$?
3 Simplify: $(2x^2 - 3x + 2) - (x^2 + 3x - 1)$
4 Expand: $2x(3x^2 + 4x - 2)$
5 Draw a tree diagram for a family of 3 children
6 What is the quadratic formula?
7 Factorise $x^2 - 6x + 5$
8 What is the value of: $\text{Log}_2 32$
9 $^-3 - 7$
10 Evaluate 4^3?

Mental computation (End Term 2)

1 Spell Remainder Theorem
2 Is $x + 1$ a factor of $x^3 - 2x^2 - 2x + 1$?
3 Simplify: $(x^3 - 2x + 1) - (3x^3 - 2x - 2)$
4 Expand: $^-2x(5x^3 - 2x - 3)$
5 Draw a tree diagram for tossing 3 coins
6 What is the quadratic formula?
7 Factorise $x^2 - 4x + 4$
8 What is the value of: $\text{Log}_2 64$
9 $^-5 + ^-3$
10 Evaluate 5^3?