



Mental Computation

Year 10 Mathematics

End Term 2

Mental computation (End Term 2)

- 1 Spell Quadratic.
- 2 List all possible outcomes for tossing 3 coins
- 3 $P(2 \text{ tails and a head})$
- 4 What is the quadratic formula?
- 5 $3x^2 - 2x - 1 = 0$. What are the values of a , b , and c ?
- 6 Factorise $x^2 + 7x + 6$
- 7 What is the value of: $\text{Log}_2 8$
- 8 Solve: $x + y = 9$, $xy = 18$
- 9 $^{-}2 - ^{-}4$
- 10 Evaluate 2^5 ?

2^5 $= 2 \times 2 \times 2 \times 2 \times 2$ $= 32$
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Sample 1

Mental computation (End Term 2)

- 1 Spell Probability
- 2 List all possible outcomes for a family of three children
- 3 $P(2 \text{ girls and a boy})$
- 4 What is the quadratic formula?
- 5 $x^2 - 3x + 4 = 0$. What are the values of a , b , and c ?
- 6 Factorise $x^2 - 5x + 6$
- 7 What is the value of: $\text{Log}_3 9$
- 8 Solve: $x + y = 11$, $xy = 28$
- 9 $^{-}5 - ^{-}1$
- 10 Evaluate 3^3 ?

Sample 2

Mental computation (End Term 2)

- 1 Spell Conditional
- 2 List all possible outcomes for tossing three coins
- 3 $P(3 \text{ heads})$
- 4 What is the quadratic formula?
- 5 $2x^2 - x + 5 = 0$. What are the values of a , b , and c ?
- 6 Factorise $x^2 + 3x - 10$
- 7 What is the value of: $\text{Log}_4 16$
- 8 Solve: $x + y = 13$, $xy = 42$
- 9 $^{-}3 - 5$
- 10 Evaluate 4^3 ?

Sample 3