

## Mental Computation

## **Year 10A Mathematics**

**End Term 1** 

### **Mental computation (End Term 1)**

- 1 Spell Fractional Indices.
- 2 Simplify:  $\sqrt{12}$
- 3 Simplify:  $4^{\frac{3}{2}}$
- 4 What is the value of:  $Log_{10}1000$
- 5 What is the formula for the volume of a cylinder?
- 6 Solve: 2x 5 < 3
- 7 Solve: x + y = 7, xy = 10
- **8** <sup>-</sup>2 <sup>-</sup>5
- 9  $(x^{-3})^2$
- 10 Simplify:  $\frac{x}{4} + \frac{2x}{4}$

## $9^{\frac{3}{2}} = (\sqrt[2]{9})^{3} = 3^{3} = 27$

Sample

#### **Mental computation (End Term 1)**

- 1 Spell Logarithms.
- 2 Simplify:  $\sqrt{18}$
- 3 Simplify:  $16^{\frac{3}{2}}$
- 4 What is the value of: Log<sub>2</sub>8
- 5 What is the formula for the volume of a pyramid?
- 6 Solve: 2x 1 > 3
- 7 Solve: x + y = 7, xy = 12
- **8** <sup>-</sup>2 3
- 9  $x^{-2} \times x^2$
- 10 Simplify:  $\frac{3x}{5} + \frac{x}{5}$

# Sample &

## **Mental computation (End Term 1)**

- 1 Spell Surd.
- 2 Simplify:  $\sqrt{27}$
- 3 Simplify:  $8^{\frac{2}{3}}$
- 4 What is the value of: Log<sub>3</sub>81
- 5 What is the formula for the area of a circle?
- 6 Solve: 4x 3 < 7
- 7 Solve: x + y = 11, xy = 30
- **8** <sup>-8</sup> <sup>-5</sup>
- 9  $x^{-3} \div x^2$
- 10 Simplify:  $\frac{2x}{6} + \frac{3x}{6}$

