Mental Computation

Year 10 Mathematics

End Term 1

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

Mental computation (End Term 1)

1   Spell Factorisation.

2   Simplify: $\sqrt{12}$

3   Simplify: $4^{\frac{3}{2}}$

4   What is the formula for the area of a circle?

5   What is the formula for the volume of a cylinder?

6   Solve: $2x - 5 < 3$

7   Solve: $x + y = 9, \ x - y = 1$

8 $^-2 - {}^-8$

9 $(x^{-3})^2$

> The sum of two numbers is 9
> Their difference is 1.
> What are the two numbers?

10 Simplify: $\dfrac{x}{4} + \dfrac{2x}{4}$

Mental computation (End Term 1)

1   Spell Linear Equation.

2   Simplify: $\sqrt{18}$

3   Simplify: $16^{\frac{3}{2}}$

4   What is the formula for the area of a rectangle?

5   What is the formula for the volume of a rectangular prism?

6   Solve: $3x - 2 < 4$

7   Solve: $x + y = 10, \ x - y = 4$

8 $^-5 - {}^-6$

9 $x^3 \div x^2$

10 Simplify: $\dfrac{3x}{5} + \dfrac{x}{5}$

Mental computation (End Term 1)

1   Spell Right Pyramid.

2   Simplify: $\sqrt{27}$

3   Simplify: $8^{\frac{2}{3}}$

4   What is the formula for the area of a triangle?

5   What is the formula for the volume of a triangular based prism?

6   Solve: $2x - 3 > 3$

7   Solve: $x + y = 13, \ x - y = 9$

8 $^-5 - 3$

9 $x^{-3} \times x^2$

10 Simplify: $\dfrac{2x}{6} + \dfrac{3x}{6}$

Sample 1

Sample 2

Sample 3