

## Logarithms

1) Evaluate  $\log_{10} 6 + \log_{10} 45 - \log_{10} 27$

2) Simplify  $\frac{\log \sqrt{8}}{\log 8}$

3) Simplify  $\frac{\log 27^{\frac{1}{3}}}{\log 18}$

4) Evaluate  $2\log_3 6 + \log_3 16$

5) Evaluate  $\log_{10} 4 + \log_{10} 25$

## Logarithms

$$1) \text{ Evaluate } \log_{10} 6 + \log_{10} 45 - \log_{10} 27 \\ = 1$$

$$2) \text{ Simplify } \frac{\log \sqrt{8}}{\log 8} \\ = \frac{1}{2}$$

$$3) \text{ Simplify } \frac{\log 27^{\frac{1}{3}}}{\log 18} \\ = \frac{1}{4}$$

$$4) \text{ Evaluate } 2 \log_3 6 + \log_3 16 \\ = 3$$

$$5) \text{ Evaluate } \log_{10} 4 + \log_{10} 25 \\ = 2$$