

Class 2
Form 3 – BASIC INDICES

1. Simplify the following expressions so that a b and c appear only once and with a positive power.

a. $\frac{a^2 \times b^3}{b^6}$

b. $\frac{a^2 b^{10} c^2 a^5}{b^{-12} c^2}$

c. $a^6 a^{-7} c$

d. $\frac{a^3 a^4}{a^7}$

2. Evaluate the following without using a calculator

a. $64^{\frac{1}{2}}$

b. $125^{\frac{1}{3}}$

c. $4^{-\frac{1}{2}}$

d. $27^{\frac{1}{3}} 27^{\frac{1}{3}}$