



**Maths Ordinary Level
Leaving Certificate
Ordinary Level**

**Past exam questions on
Indices**

Q1 – 2012 – P1 Sample Paper

Question 1

(25 marks)

- (a) Write 6^{-2} and $81^{\frac{1}{2}}$ without using indices.

$6^{-2} =$	$81^{\frac{1}{2}} =$

- (b) Express 2^{24} in the form $a \times 10^n$, where $1 \leq a < 10$ and $n \in \mathbb{Z}$, correct to three significant figures.

- (c) Show that $\frac{(a\sqrt{a})^3}{a^4}$ simplifies to \sqrt{a} .

- (d) Solve the equation $49^x = 7^{2+x}$ and verify your answer.
