

Indices – 2022 O Level Math D

1. June/2022/Paper_11/No.15

(a) Evaluate $7^{-3} \div 7^{-4}$.

..... [1]

(b) Find the value of k when $(3^6)^k = 3^2$.

$k =$ [1]

(c) Simplify $3(2^2 \times 3^3 \times 5^4)^2$.
Give your answer in the form $2^a \times 3^b \times 5^c$.

..... [2]

2. June/2022/Paper_12/No.12(b)

(b) By writing each number correct to 1 significant figure, estimate the value of

$$\frac{\sqrt{3.93} \times 63.7}{0.425}$$

..... [2]

