



Core Mathematics C12(GCE)

Practice Question 1

Standard A[★]

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Surds

Question:

Given that, $\sqrt{12.1} = k\sqrt{10}$.

Without using a calculator, find the value of k in the form $\frac{a}{b}$,
where a and b are (smallest positive) integers.

(3 marks)

Golden Rules

- $\sqrt{a} = a^{\frac{1}{2}}$
- $\sqrt{ab} = \sqrt{a} \times \sqrt{b}$
- $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$
- $\sqrt{a} \times \sqrt{a} = a$
- $\sqrt{a} + \sqrt{a} = 2\sqrt{a}$
- $a\sqrt{b} = \sqrt{a^2b}$
- $a\sqrt{b} \times c\sqrt{d} = ac\sqrt{bd}$
- $a\sqrt{x} \pm b\sqrt{x} = (a \pm b)\sqrt{x}$

Traditional or Online classes

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