



## **SURDS**

## **NO CALCULATOR EQUIVALENT SURDS**

A1	A2	A3	A4
Express $4\sqrt{2}$ in the form $\sqrt{a}$	Express $7\sqrt{2}$ in the form $\sqrt{a}$	Express $10\sqrt{2}$ in the form $\sqrt{a}$	Express $11\sqrt{2}$ in the form $\sqrt{a}$
B1	B2	B3	B4
_			
Express $\sqrt{8}$ in the form $a\sqrt{2}$ where $a$ is an integer.	Express $\sqrt{18}$ in the form $a\sqrt{2}$ where $a$ is an integer.	Express $\sqrt{50}$ in the form $a\sqrt{2}$ where $a$ is an integer.	Express $\sqrt{128}$ in the form $a\sqrt{2}$ where $a$ is an integer.
C1	C2	C3	C4
Express $2\sqrt{5}$ in the form $\sqrt{a}$	Express $3\sqrt{6}$ in the form $\sqrt{a}$	Express $6\sqrt{3}$ in the form $\sqrt{a}$	Express $5\sqrt{5}$ in the form $\sqrt{a}$
D1	D2	D2	D4
D1	D2	D3	D4
Express $\sqrt{75}$ in the form $a\sqrt{3}$ where $a$ is an integer.	Express $\sqrt{54}$ in the form $a\sqrt{6}$ where $a$ is an integer.	Express $\sqrt{150}$ in the form $a\sqrt{6}$ where $a$ is an integer.	Express $\sqrt{180}$ in the form $a\sqrt{5}$ where $a$ is an integer.
E1	E2	E3	E4
Express $\sqrt{48}$ in the form $a\sqrt{b}$	Express $\sqrt{45}$ in the form $a\sqrt{b}$	Express $\sqrt{147}$ in the form $a\sqrt{b}$	Express $\sqrt{112}$ in the form $a\sqrt{b}$
where $a$ and $b$ are integers and $a \ne 1$	where $a$ and $b$ are integers and $a \neq 1$	where $a$ and $b$ are integers and $a \neq 1$	where $a$ and $b$ are integers and $a \neq 1$





## SURDS EQUIVALENT SURDS

## **NO CALCULATOR**

Ref: G182. **1 F 1** 

A1	A2	A3	A4
Express $4\sqrt{2}$ in the form $\sqrt{a}$	Express $7\sqrt{2}$ in the form $\sqrt{a}$	Express $10\sqrt{2}$ in the form $\sqrt{a}$	Express $11\sqrt{2}$ in the form $\sqrt{a}$
$\sqrt{32}$	$\sqrt{98}$	√200	√242
B1	B2	В3	B4
Express $\sqrt{8}$ in the form $a\sqrt{2}$	Express $\sqrt{18}$ in the form $a\sqrt{2}$	Express $\sqrt{50}$ in the form $a\sqrt{2}$	Express $\sqrt{128}$ in the form $a\sqrt{2}$
where $a$ is an integer.	where $a$ is an integer.	where a is an integer.	where $a$ is an integer.
2√2	3√2	5√2	8√2
C1	C2	C3	C4
Express $2\sqrt{5}$ in the form $\sqrt{a}$	Express $3\sqrt{6}$ in the form $\sqrt{a}$	Express $6\sqrt{3}$ in the form $\sqrt{a}$	Express $5\sqrt{5}$ in the form $\sqrt{a}$
$\sqrt{20}$	√54	√ <u>108</u>	√125
D1	D2	D3	D4
Express $\sqrt{75}$ in the form $a\sqrt{3}$	Express $\sqrt{54}$ in the form $a\sqrt{6}$	Express $\sqrt{150}$ in the form $a\sqrt{6}$	Express $\sqrt{180}$ in the form $a\sqrt{5}$
where $a$ is an integer.			
5√3	3√6	5√6	6√5
E1	E2	E3	E4
Express $\sqrt{48}$ in the form $a\sqrt{b}$	Express $\sqrt{45}$ in the form $a\sqrt{b}$	Express $\sqrt{147}$ in the form $a\sqrt{b}$	Express $\sqrt{112}$ in the form $a\sqrt{b}$
where $a$ and $b$ are integers and $a \neq 1$	where $a$ and $b$ are integers and $a \neq 1$	where $a$ and $b$ are integers and $a \neq 1$	where $a$ and $b$ are integers and $a \neq 1$
4√3	3√5	7√3	4√7