



Air maths tuition

Interact, engage and perform

Surds - Multiplication

$\sqrt{a} \sqrt{b} = \sqrt{ab}$	$5\sqrt{3} \times 3\sqrt{2} = 15\sqrt{6}$	$(\sqrt{a})^2 = a$
$(\sqrt{5})^2 = \sqrt{5} \sqrt{5}$ $= \sqrt{25}$ $= 5$	$(\sqrt{3})^2 = \sqrt{3} \sqrt{3}$ $= \sqrt{9}$ $= 3$	$(\sqrt{6})^3 = (\sqrt{6})^2 (\sqrt{6})$ $= 6\sqrt{6}$
$(2\sqrt{5} - 3)(4 + \sqrt{5}) = 8\sqrt{5} + 10 - 12 - 3\sqrt{5}$ $= 5\sqrt{5} - 2$	$(\sqrt{3} - 3\sqrt{2})^2 = (\sqrt{3} - 3\sqrt{2})(\sqrt{3} - 3\sqrt{2})$ $= 3 - 3\sqrt{6} - 3\sqrt{6} + 9(2)$ $= 21 - 6\sqrt{6}$	

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Exam Solutions

maths made easy