■ KEY ■

L05 – FA – Multiplying Radicals

Q1: Simplify each expression *(1 mark each)*

$(3\sqrt{6})(2\sqrt{3})$

$6\sqrt{18}$

$6 \cdot 3\sqrt{2}$

$18\sqrt{2}$

$(2 - 3\sqrt{5})(2\sqrt{5} + 1)$

$4\sqrt{5} + 2 - 6(5) - 3\sqrt{5}$

$4\sqrt{5} + 2 - 30 - 3\sqrt{5}$

$\sqrt{5} - 28$

Q2: The expression $(\sqrt{6})(\sqrt{3}) + (\sqrt{10})(\sqrt{5})$ simplifies to $a\sqrt{b}$, where **a** and **b** are ___ and ___.

*(Record your **two-digit** answer in the Numerical Response boxes below)*

8	2		

$\sqrt{18} + \sqrt{50}$

$3\sqrt{2} + 5\sqrt{2}$

$8\sqrt{2}$

$a\sqrt{b}$

MARKING:

Beginning	0.0 – 1.0
Progressing	1.5
Competent	2.0 – 2.5
Exemplary	3.0