

160 - EQ - 5.2 Multiplying Radical Expressions (Part 1)

Q1: Simplify each expression (1 mark each)

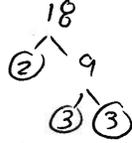
$(3\sqrt{6})(2\sqrt{3})$

$6\sqrt{18}$

$6\sqrt{2 \cdot 3^2}$

$6 \cdot 3\sqrt{2}$

$\boxed{18\sqrt{2}}$



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

$4\sqrt{5} + 2 - 6\sqrt{25} - 3\sqrt{5}$

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

$-28 + 1\sqrt{5}$

$\boxed{-28 + \sqrt{5}}$

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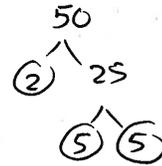
$\sqrt{18} + \sqrt{50}$

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

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

$8\sqrt{2}$
 $a\sqrt{b}$

$a=8$
 $b=2$



MARKING:

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