Math worksheet on *'Radicals - Multiplying Monomials with Binomials (Values Only) (Level 4)'*. Part of a broader unit on *'Radicals - Multiplication Intro'*

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1 Multiply the radical expressions and simplify the answer

$$(2\sqrt[3]{2}+\sqrt[3]{2})\cdot 2\sqrt[3]{5}$$

a	$5\sqrt[3]{10}$	**b**	$6\sqrt[3]{10}$
c	$7\sqrt[3]{10}$	**d**	$4+2\sqrt[3]{10}$
e	$4\sqrt[3]{10}+2\sqrt[3]{4}$	**f**	$9\sqrt[3]{10}$

2 Multiply the radical expressions and simplify the answer

$$(4\sqrt[3]{3}-\sqrt[3]{11})\cdot 2\sqrt[3]{3}$$

a	$4\sqrt[3]{9}-2\sqrt[3]{33}$	**b**	$8\sqrt[3]{9}-2$
c	$8\sqrt[3]{9}-\sqrt[3]{33}$	**d**	$8\sqrt[3]{9}-5\sqrt[3]{33}$
e	$\sqrt[3]{9}-2\sqrt[3]{33}$	**f**	$8\sqrt[3]{9}-2\sqrt[3]{33}$

3 Multiply the radical expressions and simplify the answer

$$(\sqrt{2}+3\sqrt{3})\cdot 4\sqrt{2}$$

a	$8+5\sqrt{6}$	**b**	$8+12\sqrt{6}$
c	$8+3\sqrt{6}$	**d**	$8+12\sqrt{3}$
e	$8+\sqrt{6}$	**f**	$6+12\sqrt{6}$

4 Multiply the radical expressions and simplify the answer

$$(3\sqrt{2}+\sqrt{5})\cdot 4\sqrt{7}$$

a	$12\sqrt{14}+4$	**b**	$\sqrt{14}+4\sqrt{35}$
c	$12\sqrt{14}+\sqrt{35}$	**d**	$4\sqrt{14}+4\sqrt{35}$
e	$12\sqrt{14}+4\sqrt{35}$	**f**	$12\sqrt{14}+3\sqrt{35}$

5 Multiply the radical expressions and simplify the answer

$$3\sqrt{2}\cdot(\sqrt{11}+2\sqrt{3})$$

a	$3\sqrt{22}+6\sqrt{2}$	**b**	$\sqrt{22}+6\sqrt{6}$
c	$3\sqrt{22}+4\sqrt{6}$	**d**	$3\sqrt{2}+6\sqrt{6}$
e	$3\sqrt{22}+6\sqrt{6}$	**f**	$3\sqrt{22}+\sqrt{6}$

6 Multiply the radical expressions and simplify the answer

$$2\sqrt{11}\cdot(\sqrt{5}+3\sqrt{11})$$

a	68	**b**	$\sqrt{55}+66$
c	$3\sqrt{55}+66$	**d**	$2\sqrt{55}+11$
e	$2\sqrt{55}+66$	**f**	$2\sqrt{55}+44$

7 Multiply the radical expressions and simplify the answer

$$2\sqrt[3]{11}\cdot(2\sqrt[3]{3}-\sqrt[3]{7})$$

a	$4\sqrt[3]{33}-\sqrt[3]{77}$	**b**	$4\sqrt[3]{33}-3\sqrt[3]{77}$
c	$4\sqrt[3]{33}-2\sqrt[3]{77}$	**d**	$3\sqrt[3]{33}-2\sqrt[3]{77}$
e	$4\sqrt[3]{33}-2$	**f**	$\sqrt[3]{33}-2\sqrt[3]{77}$