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Math worksheet on *'Radicals - Adding and Subtracting (Values Only) (Level 5)'*. Part of a broader unit on *'Radicals - Addition and Subtraction Intro'*

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1 Simplify, then add or subtract the radical expressions

$$\sqrt{176} - \sqrt{275} - \sqrt{44}$$

a	$3\sqrt{11} - 2\sqrt{11}$	**b**	$\sqrt{11} - 2\sqrt{11}$
c	$5\sqrt{11} - 2\sqrt{11}$	**d**	$2\sqrt{7} - 7\sqrt{10}$
e	$-1 - 2\sqrt{11}$	**f**	$-1\sqrt{11} - 2\sqrt{11}$

2 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{189} - \sqrt[3]{448} - \sqrt[3]{56}$$

a	$-1\sqrt[3]{4} - 2\sqrt[3]{7}$	**b**	$\sqrt[3]{9} - 7\sqrt[3]{10} - \sqrt[3]{6}$
c	$-1\sqrt[3]{7} - 2\sqrt[3]{7}$	**d**	$\sqrt[3]{4} - 6\sqrt[3]{7} - 2\sqrt[3]{8}$
e	$2\sqrt[3]{8} - 4\sqrt[3]{6}$	**f**	$\sqrt[3]{7} - 2\sqrt[3]{7}$

3 Simplify, then add or subtract the radical expressions

$$\sqrt{175} - \sqrt{63} - \sqrt{28}$$

a	$4\sqrt{7} - 2\sqrt{7}$	**b**	$3\sqrt{3} - 6\sqrt{6}$
c	$\sqrt{7} - 2\sqrt{7}$	**d**	$2 - 2\sqrt{7}$
e	$2\sqrt{7} - 2\sqrt{7}$	**f**	$2\sqrt{4} - 2\sqrt{7}$

4 Simplify, then add or subtract the radical expressions

$$\sqrt{27} - \sqrt{12} - \sqrt{27}$$

a	$1 - 3\sqrt{3}$	**b**	$4\sqrt{4} - 1$
c	$5\sqrt{3} - 3\sqrt{3}$	**d**	$6 - \sqrt{4} - 3\sqrt{3}$
e	$2\sqrt{2} - \sqrt{4} - 3$	**f**	$\sqrt{3} - 3\sqrt{3}$

5 Simplify, then add or subtract the radical expressions

$$\sqrt{275} + \sqrt{99} - \sqrt{176}$$

a	$2\sqrt{11} + 6\sqrt{10} - 2\sqrt{9}$	**b**	$6\sqrt{9} + 2\sqrt{8} - 5\sqrt{12}$
c	$8 + 4\sqrt{11}$	**d**	$8\sqrt{3} + 4\sqrt{11}$
e	$2\sqrt{11} + 4\sqrt{11}$	**f**	$8\sqrt{11} + 4\sqrt{11}$

6 Simplify, then add or subtract the radical expressions

$$\sqrt{27} - \sqrt{27} + \sqrt{75}$$

a	$2\sqrt{6} - 2\sqrt{5} + 5\sqrt{4}$	**b**	$3\sqrt{4} + 7$
c	$5\sqrt{3}$	**d**	$\sqrt{3} - 5\sqrt{3}$
e	$4\sqrt{3} - 5\sqrt{3}$	**f**	$2\sqrt{4} - 2\sqrt{6}$

7 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{88} - \sqrt[3]{88} - \sqrt[3]{704}$$

a	$\sqrt[3]{7} - \sqrt[3]{12} - \sqrt[3]{14}$	**b**	$2\sqrt[3]{11} - 4\sqrt[3]{11}$
c	$\sqrt[3]{11} - 4\sqrt[3]{11}$	**d**	$3\sqrt[3]{11} - 4\sqrt[3]{11}$
e	$\sqrt[3]{9} - \sqrt[3]{8} - \sqrt[3]{10}$	**f**	$4\sqrt[3]{11}$