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Math worksheet on *'Radicals - Adding and Subtracting - Simplification (Values Only) (Level 3)'*. Part of a broader unit on *'Radicals - Addition and Subtraction Intro'*

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1 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{48} - \sqrt{75}$$

a	$\sqrt{6} - 8\sqrt{6}$	**b**	$7\sqrt{2} - 5\sqrt{3}$
c	$4\sqrt{6} - 5\sqrt{3}$	**d**	$4\sqrt{3} - 5\sqrt{3}$
e	$4\sqrt{3} - 5\sqrt{4}$	**f**	$\sqrt{5} - 8\sqrt{4}$

2 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{112} - \sqrt{63}$$

a	$\sqrt{4} - 3\sqrt{7}$	**b**	$4\sqrt{7} - 3\sqrt{7}$
c	$4\sqrt{7} - 2\sqrt{9}$	**d**	$2\sqrt{5} - 3\sqrt{7}$
e	$4\sqrt{7} - 3\sqrt{10}$	**f**	$\sqrt{5} - 3\sqrt{7}$

3 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{45} + \sqrt{20}$$

a	$3\sqrt{5} + 2\sqrt{2}$	**b**	$3\sqrt{5} + \sqrt{8}$
c	$5\sqrt{6} + 2\sqrt{5}$	**d**	$\sqrt{5} + 2\sqrt{5}$
e	$3\sqrt{5} + 2\sqrt{5}$	**f**	$5\sqrt{3} + 2\sqrt{5}$

4 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{80} - \sqrt{45}$$

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

5 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{28} + \sqrt{63}$$

a	$2\sqrt{7} + 3\sqrt{7}$	**b**	$2\sqrt{7} + \sqrt{4}$
c	$2\sqrt{7} + 4\sqrt{5}$	**d**	$2\sqrt{4} + 3\sqrt{7}$
e	$\sqrt{8} + 3\sqrt{7}$	**f**	$\sqrt{4} + 3\sqrt{8}$

6 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{48} - \sqrt{12}$$

a	$4\sqrt{3} - 5\sqrt{5}$	**b**	$4\sqrt{3} - \sqrt{5}$
c	$4\sqrt{3} - 5\sqrt{3}$	**d**	$4\sqrt{3} - 2\sqrt{3}$
e	$7\sqrt{6} - 2\sqrt{3}$	**f**	$4\sqrt{3} - 1$

7 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{20} - \sqrt{45}$$

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