Math worksheet on *'Radicals - Adding and Subtracting (Values Only) (Level 4)'*. Part of a broader unit on *'Radicals - Addition and Subtraction Intro'*

Learn online:

app.mobius.academy/math/units/radicals_addition_and_subtraction_intro/

1 Simplify, then add or subtract the radical expressions

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

a	$\sqrt{5} - 2\sqrt{5}$	**b**	$4\sqrt{5} - 2\sqrt{5}$
c	$-1\sqrt{5} - 2\sqrt{5}$	**d**	$\sqrt{5} - 6\sqrt{3} + \sqrt{8}$
e	$1 - \sqrt{5} + 4\sqrt{2}$	**f**	$3\sqrt{6} - 6\sqrt{2} + 5\sqrt{4}$

2 Simplify, then add or subtract the radical expressions

$$\sqrt{8} - \sqrt{32} + \sqrt{8}$$

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

3 Simplify, then add or subtract the radical expressions

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

a	$6\sqrt[3]{11} + 4\sqrt[3]{11}$	**b**	$2\sqrt[3]{7} + \sqrt[3]{10}$
c	$3\sqrt[3]{9} + \sqrt[3]{11} + \sqrt[3]{8}$	**d**	$2\sqrt[3]{11} + 4\sqrt[3]{11}$
e	$6\sqrt[3]{3} + 4\sqrt[3]{11}$	**f**	$6 + 4\sqrt[3]{11}$

4 Simplify, then add or subtract the radical expressions

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

a	$-1\sqrt[3]{7} - 3\sqrt[3]{7}$	**b**	$-1 - 3\sqrt[3]{7}$
c	$6\sqrt[3]{5} - \sqrt[3]{9} - \sqrt[3]{10}$	**d**	$5\sqrt[3]{7} - 3\sqrt[3]{7}$
e	$\sqrt[3]{7} - 3\sqrt[3]{7}$	**f**	$5\sqrt[3]{8}$

5 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{128} - \sqrt[3]{54} + \sqrt[3]{16}$$

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

6 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{88} + \sqrt[3]{297} - \sqrt[3]{704}$$

a	$5\sqrt[3]{11} + 4\sqrt[3]{11}$	**b**	$5 + 4\sqrt[3]{11}$
c	$10\sqrt[3]{12} + 7\sqrt[3]{11}$	**d**	$5\sqrt[3]{3} + 4\sqrt[3]{11}$
e	$4\sqrt[3]{11} + 4\sqrt[3]{11}$	**f**	$\sqrt[3]{11} + 4\sqrt[3]{11}$

7 Simplify, then add or subtract the radical expressions

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

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