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Math worksheet on *'Radicals - Cube - Simplifying from Factors, Values and Variables, Radical Remaining (Level 1)'*. Part of a broader unit on *'Radicals - Simplifying Practice'*

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1 Simplify the radical

$$\sqrt{2 \cdot 2 \cdot 3 \cdot b \cdot b}$$

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

2 Simplify the radical

$$\sqrt{2 \cdot 2 \cdot 3 \cdot y}$$

a	b	c	d	e	f
$3\sqrt{4y^3}$	$\sqrt{y^3}$	$4\sqrt{4y}$	$5\sqrt{2y^3}$	$2\sqrt{y^3}$	$2\sqrt{3y}$

3 Simplify the radical

$$\sqrt{2 \cdot 2 \cdot 2 \cdot p}$$

a	b	c	d	e	f
$5\sqrt{2p}$	$3\sqrt{p}$	$\sqrt{p}$	$2\sqrt{2p}$	$5\sqrt{p}$	$4\sqrt{3p}$

4 Simplify the radical

$$\sqrt{2 \cdot 2 \cdot 7 \cdot p \cdot p \cdot p}$$

a	b
$4p\sqrt{6p^3}$	$2p\sqrt{7p}$
c	**d**
$3p^3\sqrt{10p^3}$	$p^3\sqrt{7p^3}$
e	**f**
$p^2\sqrt{10p}$	$4p\sqrt{10p^3}$

5 Simplify the radical

$$\sqrt{3 \cdot 5 \cdot 5 \cdot x}$$

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

6 Simplify the radical

$$\sqrt{2 \cdot 2 \cdot 2 \cdot n}$$

a	b	c	d	e	f
$2\sqrt{2n}$	$\sqrt{4n^2}$	$\sqrt{5n^3}$	$3\sqrt{2n}$	$\sqrt{n}$	$\sqrt{5n}$

7 Simplify the radical

$$\sqrt{3 \cdot 3 \cdot 5 \cdot d}$$

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