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Math worksheet on *'Radicals - Square - 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

$$\sqrt{5 \cdot 5 \cdot 7 \cdot b \cdot b}$$

a	b	c	d	e	f
$4b^3\sqrt{8}$	$5b\sqrt{7}$	$5b\sqrt{10}$	$4b\sqrt{6}$	$8b\sqrt{10}$	$3b^3\sqrt{7}$

2 Simplify the radical

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

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

3 Simplify the radical

$$\sqrt{5 \cdot 5 \cdot 7 \cdot x \cdot x}$$

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

4 Simplify the radical

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

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

5 Simplify the radical

$$\sqrt{3 \cdot 3 \cdot 7 \cdot n \cdot n}$$

a	b	c	d	e	f
$n^3\sqrt{4}$	$n^2\sqrt{7}$	$3n\sqrt{7}$	$2n\sqrt{10}$	$2n\sqrt{9}$	$3n\sqrt{4}$

6 Simplify the radical

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

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

7 Simplify the radical

$$\sqrt{5 \cdot 5 \cdot 7 \cdot z}$$

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