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Math worksheet on *'Radicals - Square - Simplifying from Factors, Values and Variables, Nothing Remaining (Level 2)'*. Part of a broader unit on *'Radicals - Simplifying Practice'*

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1 Simplify the radical

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

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

2 Simplify the radical

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

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

3 Simplify the radical

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

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

4 Simplify the radical

$$\sqrt{5 \cdot 5 \cdot c \cdot c}$$

a	b	c	d	e	f
$7c^3$	$7c$	$3c$	c	$4c^2$	$5c$

5 Simplify the radical

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

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

6 Simplify the radical

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

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

7 Simplify the radical

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

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