Math worksheet on *'Radicals - Square - Simplify From Squared Factors, Values and Variables, Radical Remaining (Level 2)'*. Part of a broader unit on *'Radicals - Simplifying Practice'*

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1 Simplify the radical

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

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

2 Simplify the radical

$$\sqrt{3^2 \cdot 7 \cdot m^2 \cdot}$$

a	b	c	d	e	f
$m^2\sqrt{6}$	$3m\sqrt{9}$	$m\sqrt{4}$	$m^2\sqrt{8}$	$3m\sqrt{10}$	$3m\sqrt{7}$

3 Simplify the radical

$$\sqrt{3^2 \cdot 3 \cdot r^2 \cdot r^2 \cdot r \cdot}$$

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

4 Simplify the radical

$$\sqrt{2^2 \cdot 2^2 \cdot 3 \cdot z^2 \cdot z^2 \cdot z \cdot}$$

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

5 Simplify the radical

$$\sqrt{2^2 \cdot 2^2 \cdot 5 \cdot p^2 \cdot p^2 \cdot}$$

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

6 Simplify the radical

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

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

7 Simplify the radical

$$\sqrt{2 \cdot 5^2 \cdot b^2 \cdot b^2 \cdot b \cdot}$$

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

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