Math worksheet on *'Radicals - Cube - Simplify From Cubed 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

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

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

2 Simplify the radical

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

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

3 Simplify the radical

$$\sqrt{5^2 \cdot 7 \cdot y^2 \cdot y \cdot}$$

a	b
$2y\sqrt{10y}$	$5y\sqrt{7y}$
c	**d**
$6y\sqrt{5y^3}$	$4y\sqrt{8y}$
e	**f**
$7y^3\sqrt{10y}$	$y\sqrt{10y}$

4 Simplify the radical

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

a	b	c	d	e	f
$2y^2\sqrt{3y}$	$2y\sqrt{9y}$	$2y^3\sqrt{9y}$	$6y\sqrt{9y}$	$6y\sqrt{7y}$	$3y^2\sqrt{7y}$

5 Simplify the radical

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

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

6 Simplify the radical

$$\sqrt{3 \cdot 5^2 \cdot m^2 \cdot m^2 \cdot}$$

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

7 Simplify the radical

$$\sqrt{2^2 \cdot 7 \cdot y \cdot}$$

a	b	c	d	e	f
$2\sqrt{7y}$	$3\sqrt{7y}$	$5\sqrt{8y^3}$	$5\sqrt{10y}$	$\sqrt{7y^2}$	$\sqrt{10y}$