



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

Learn online: app.mobius.academy/math/units/radicals_simplifying_practice/

1 Simplify the radical

$$\sqrt{5^2 \cdot 11 \cdot y^2 \cdot y}$$

a	$5y\sqrt{8y}$	b	$5y^3\sqrt{7y}$
c	$5y\sqrt{11y}$	d	$8y^2\sqrt{13y^3}$
e	$7y\sqrt{13y}$	f	$7y\sqrt{11y}$

2 Simplify the radical

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

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

3 Simplify the radical

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

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

4 Simplify the radical

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

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

5 Simplify the radical

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

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

6 Simplify the radical

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

a	$3r\sqrt{5r}$	b	$5r^3\sqrt{10r}$
c	$3r\sqrt{7r}$	d	$2r\sqrt{7r}$
e	$r\sqrt{10r^2}$	f	$r^3\sqrt{4r^2}$

7 Simplify the radical

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

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