



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'

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

1

Simplify the radical

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

a

$$7z^2\sqrt{2}$$

b

$$4z^2\sqrt{4}$$

c

$$4z$$

d

$$5z\sqrt{2}$$

e

$$5z^3\sqrt{3}$$

f

$$6z^2\sqrt{2}$$

2

Simplify the radical

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

a

$$6d^3\sqrt{6}$$

b

$$d\sqrt{3}$$

c

$$4d\sqrt{5}$$

d

$$d^2$$

e

$$4d\sqrt{2}$$

f

$$3d^3\sqrt{3}$$

3

Simplify the radical

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

a

$$6y\sqrt{9y}$$

b

$$2y^3\sqrt{9y}$$

c

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

d

$$6y\sqrt{7y}$$

e

$$2y\sqrt{9y}$$

f

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

4

Simplify the radical

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

a

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

b

$$r^3\sqrt{7r}$$

c

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

d

$$3r\sqrt{6r}$$

e

$$r^4\sqrt{3r^3}$$

f

$$5r^2\sqrt{10r^3}$$

5

Simplify the radical

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

a

$$2\sqrt{7y}$$

b

$$3\sqrt{7y}$$

c

$$5\sqrt{8y^3}$$

d

$$\sqrt{10y}$$

e

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

f

$$5\sqrt{10y}$$

6

Simplify the radical

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

a

$$6\sqrt{4d}$$

b

$$7\sqrt{3d}$$

c

$$5\sqrt{7d}$$

d

$$2\sqrt{4d}$$

e

$$\sqrt{4d}$$

f

$$6\sqrt{6d^3}$$

7

Simplify the radical

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

a

$$5\sqrt{x}$$

b

$$2\sqrt{3x^2}$$

c

$$4\sqrt{3x}$$

d

$$4\sqrt{5x}$$

e

$$4\sqrt{2x}$$

f

$$2\sqrt{6x}$$