



Math worksheet on 'Radicals - Square - Simplifying from 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/

2 Simplify the radical

$$\sqrt{3 \cdot 3 \cdot 5 \cdot d \cdot d \cdot d}$$

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

1 Simplify the radical

$$\sqrt{3 \cdot 3 \cdot 3 \cdot m \cdot m \cdot m}$$

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

3 Simplify the radical

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

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

4 Simplify the radical

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

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

5 Simplify the radical

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

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

6 Simplify the radical

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

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

7 Simplify the radical

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

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