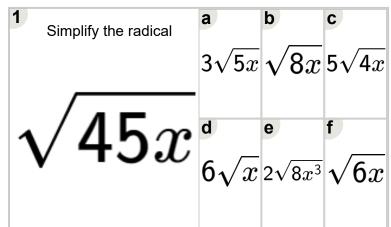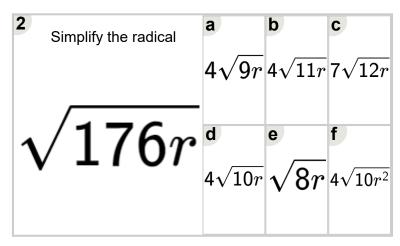# mobius

Math worksheet on *'Radicals - Square - Simplifying, Values and Variables, Radical Remaining (Level 1)'*. Part of a broader unit on *'Radicals - Simplifying Practice'*
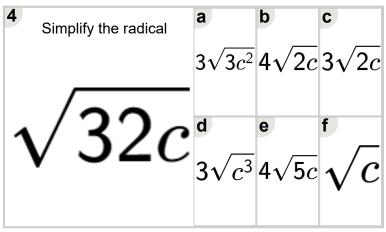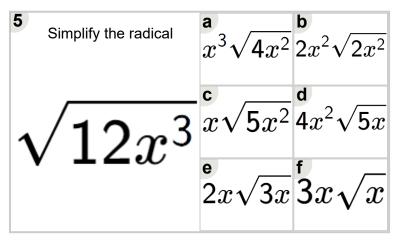
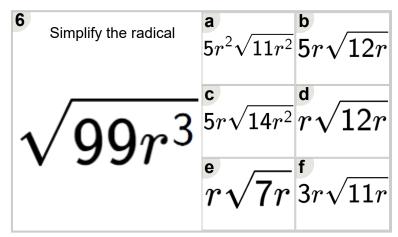Learn online: app.mobius.academy/math/units/radicals_simplifying_practice/

1 Simplify the radical

$$\sqrt{45x}$$

a	b	c
$3\sqrt{5x}$	$\sqrt{8x}$	$5\sqrt{4x}$

d	e	f
$6\sqrt{x}$	$2\sqrt{8x^3}$	$\sqrt{6x}$

2 Simplify the radical

$$\sqrt{176r}$$

a	b	c
$4\sqrt{9r}$	$4\sqrt{11r}$	$7\sqrt{12r}$

d	e	f
$4\sqrt{10r}$	$\sqrt{8r}$	$4\sqrt{10r^2}$

3 Simplify the radical

$$\sqrt{275d^2}$$

a	b	c
$4d\sqrt{9}$	$5d\sqrt{7}$	$8d\sqrt{7}$

d	e	f
$4d\sqrt{14}$	$5d^3\sqrt{11}$	$5d\sqrt{11}$

4 Simplify the radical

$$\sqrt{32c}$$

a	b	c
$3\sqrt{3c^2}$	$4\sqrt{2c}$	$3\sqrt{2c}$

d	e	f
$3\sqrt{c^3}$	$4\sqrt{5c}$	$\sqrt{c}$

5 Simplify the radical

$$\sqrt{12x^3}$$

a	b
$x^3\sqrt{4x^2}$	$2x^2\sqrt{2x^2}$

c	d
$x\sqrt{5x^2}$	$4x^2\sqrt{5x}$

e	f
$2x\sqrt{3x}$	$3x\sqrt{x}$

6 Simplify the radical

$$\sqrt{99r^3}$$

a	b
$5r^2\sqrt{11r^2}$	$5r\sqrt{12r}$

c	d
$5r\sqrt{14r^2}$	$r\sqrt{12r}$

e	f
$r\sqrt{7r}$	$3r\sqrt{11r}$

7 Simplify the radical

$$\sqrt{44x}$$

a	b	c
$\sqrt{13x^3}$	$2\sqrt{10x^2}$	$\sqrt{9x^3}$

d	e	f
$2\sqrt{11x}$	$5\sqrt{8x}$	$4\sqrt{8x^3}$