



Math worksheet on 'Radicals - Cube - Simplifying, Values and Variables, Radical Remaining (Level 3)'.
Part of a broader unit on 'Radicals - Simplifying Advanced'

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

1 Simplify the radical

a	b	c
$r\sqrt{14c^2}$	$2r^2\sqrt{11c}$	$r\sqrt{13c}$
$\sqrt{44r^4c}$		
d	e	
$r\sqrt{12c}$	$2r\sqrt{13c}$	

2 Simplify the radical

a	b	c
$3b\sqrt{p}$	$b^2\sqrt{2p^3}$	$2b\sqrt{3p}$
$\sqrt{12pb^2}$		
d		
$5b\sqrt{4p}$		

3 Simplify the radical

$\sqrt{20m^2y^3}$	
a	b
$my\sqrt{5y^3}$	$my\sqrt{7y^2}$
c	d
$2my\sqrt{5y}$	$my\sqrt{8y}$
e	
$m^3y^3\sqrt{3y}$	

4 Simplify the radical

$\sqrt{99m^4r^3}$	
a	b
$m^2r\sqrt{14r}$	$3m^2r\sqrt{11r}$
c	d
$3mr^3\sqrt{7r}$	$mr\sqrt{14r^3}$
e	
$mr\sqrt{8r}$	

5 Simplify the radical

$\sqrt{175p^3r^5}$	
a	b
$5pr^2\sqrt{7pr}$	$pr\sqrt{3pr}$
c	d
$2pr^2\sqrt{9pr^2}$	$7p^2r\sqrt{6pr}$
e	
$6p^3r^2\sqrt{5pr}$	

6 Simplify the radical

$\sqrt{44n^4y}$	
a	b
$n^3\sqrt{7y^2}$	$n\sqrt{9y}$
c	d
$5n^2\sqrt{11y}$	$4n^3\sqrt{8y}$
e	
$2n^2\sqrt{11y}$	

7 Simplify the radical

$\sqrt{112d^4r}$		
a	b	c
$d^4\sqrt{5r^3}$	$7d^2\sqrt{6r}$	$d^3\sqrt{7r^2}$
d	e	
$7d^4\sqrt{7r}$	$4d^2\sqrt{7r}$	