



Math worksheet on 'Radicals - Divide Monomials (Values and Variables) (Level 1)'. Part of a broader unit on 'Radicals - Division Intro'

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

1 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{7b}}{\sqrt{63b}}$$

a	b	c
1	$\sqrt{3}$	$\frac{2}{3}$
d	e	f
3	$\frac{1}{3}$	$\frac{\sqrt{3}}{3}$

2 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{2z}}{\sqrt{32}}$$

a	b	c
\sqrt{z}	$\frac{\sqrt{z}}{4}$	$\frac{5\sqrt{3z}}{12}$
d	e	f
$\frac{3\sqrt{z}}{4}$	$\frac{\sqrt{z}}{2}$	z

3 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{5}}{\sqrt{125c^3}}$$

a	b	c
$\frac{\sqrt{3c}}{c^2}$	$\frac{1}{5c}$	$\frac{\sqrt{c}}{5c^2}$
d	e	f
$\frac{4\sqrt{c}}{c^2}$	$\frac{\sqrt{c^{-1}}}{5c^3}$	$\frac{2\sqrt{c}}{5}$

4 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{208c^3}}{\sqrt{13c^3}}$$

a	b	c
$\frac{1}{4}$	$2\sqrt{3}$	4
d	e	f
$4\sqrt{2}$	1	5

5 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{11d^2}}{\sqrt{99}}$$

a	b	c
$\frac{d}{3}$	$\frac{d}{6}$	$\frac{d\sqrt{2}}{6}$
d	e	f
$\frac{d}{4}$	d^{-1}	$5d$

6 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{11d}}{\sqrt{176d^2}}$$

a	b	c
$\frac{\sqrt{d}}{5d}$	$\frac{\sqrt{d^{-1}}}{4d}$	$\frac{\sqrt{d}}{4d}$
d	e	f
$\frac{1}{2}$	$\frac{\sqrt{d^{-1}}}{4}$	$\frac{1}{d}$

7 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{125x^4}}{\sqrt{5}}$$

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