



Math worksheet on '*Radicals - Divide Monomials (Values and Variables) (Level 3)*'. Part of a broader unit on '*Radicals - Division Intro*'

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

- 2** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{32p^3d^3}}{\sqrt{45p^2d^2}}$$

a	$\sqrt{10pd}$	b	$\frac{2\sqrt{10p}}{15}$
c	$4d\sqrt{10pd}$	d	$\frac{4d\sqrt{10pd}}{15}$
e	$\frac{8\sqrt{3pd}}{45}$	f	$\frac{4\sqrt{10pd}}{15}$

- 4** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{12p^3}}{\sqrt{80p^4x}}$$

a	$\frac{2\sqrt{xp}}{5px}$	b	$\frac{\sqrt{15xp}}{10px}$	c	$\frac{\sqrt{15xp}}{10}$
d	$\frac{3\sqrt{15xp}}{10p}$	e	$\frac{\sqrt{xp}}{10p^3x}$	f	$\frac{3\sqrt{15xp}}{4px}$

- 6** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{48zr^4}}{\sqrt{63z^2r^4}}$$

a	$\frac{4\sqrt{21z}}{21z}$	b	$4\sqrt{21}$	c	$\frac{4\sqrt{21z^{-1}}}{21z^3}$
d	$\frac{4\sqrt{21z^{-1}}}{z}$	e	$\frac{4\sqrt{21z}}{21z^2}$	f	$\frac{\sqrt{21z}}{z}$

- 1** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{176cx^4}}{\sqrt{20c^4x^4}}$$

a	$\frac{\sqrt{55c}}{5c^2x^{-2}}$	b	$\frac{2\sqrt{55c}}{5c^2}$	c	$\frac{\sqrt{55c}}{c^2x^{-1}}$
d	$\frac{2\sqrt{55c}}{5c}$	e	$\frac{2\sqrt{c}}{5c^3}$	f	$\frac{\sqrt{55c}}{5c^3}$

- 3** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{45z^3r^2}}{\sqrt{28z^2r^2}}$$

a	$\frac{\sqrt{70z}}{28}$	b	$\frac{\sqrt{105z^{-1}}}{14}$	c	$2\sqrt{35z}$
d	$\frac{3z\sqrt{35}}{14}$	e	$\frac{\sqrt{35z}}{28}$	f	$\frac{3\sqrt{35z}}{14}$

- 5** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{75n^4}}{\sqrt{8p^3n^2}}$$

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

- 7** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{63m^3n}}{\sqrt{20n^2}}$$

a	$\frac{3m^2\sqrt{35mn}}{10n^2}$	b	$\frac{3m^2\sqrt{35n}}{10n^3}$	c	
c	$\frac{3m\sqrt{35m^{-1}n}}{10n}$	d	$\frac{3m\sqrt{35mn}}{10n}$	e	
e	$\frac{3\sqrt{35mn}}{n}$	f	$\frac{3m\sqrt{mn}}{10n^{-1}}$		