



Math worksheet on 'Radicals - Divide Monomials (Values and Variables) (Level 2)'. Part of a broader unit on 'Radicals - Division Intro'

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1 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{20d}}{\sqrt{80d}}$$

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

2 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{28}}{\sqrt{112m^2}}$$

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

3 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{125}}{\sqrt{20m^3}}$$

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

4 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{28c^4}}{\sqrt{112}}$$

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

5 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{48z^2}}{\sqrt{27z}}$$

a	$\frac{4}{3}$	b	$4z\sqrt{z}$	c	$4z$
d	$\frac{4\sqrt{z}}{3}$	e	$\frac{4\sqrt{3}}{9}$	f	$4\sqrt{3z}$

6 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{99y^3}}{\sqrt{44y^2}}$$

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

7 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{28b^3}}{\sqrt{112b^4}}$$

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