

Math worksheet on 'Radicals - Divide Binomials by Monomials (Values and Variables) (Level 4)'. Part of a broader unit on 'Radicals - Division Intro'

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2	Divide the radical expressions and simplify the

$$\frac{4cp\sqrt{11c}-c\sqrt{3p}}{3cp^2\sqrt{2c}}$$

answer

a	$\frac{4cp\sqrt{22}+3\sqrt{6cp}}{5cp^2}$	$\frac{4c\sqrt{22} - \sqrt{6cp}}{4cp^2}$	
C	$\frac{cp\sqrt{22}+\sqrt{6cp}}{6cp}$	$\frac{4c^3p\sqrt{22}-\sqrt{6cp}}{cp^2}$	
е	$\frac{4cp\sqrt{22}-\sqrt{6cp}}{6cp^2}$	$\frac{4cp\sqrt{22} - \sqrt{6cp}}{cp^2}$	

Divide the radical expressions and simplify the answer $\frac{4\sqrt{5r}+rc\sqrt{11r}}{3\sqrt{3}}$ a $\frac{4\sqrt{15r}+rc\sqrt{33r}}{9}$ b $4\sqrt{15}+rc\sqrt{33r}$ c $\frac{4\sqrt{30r}+rc\sqrt{66r^{-1}}}{18}$ d $4\sqrt{3r}+rc\sqrt{33r}$ e $\frac{4\sqrt{15r}+r^2c\sqrt{33r}}{9}$ f $4\sqrt{15r}+rc\sqrt{33r^{-1}}$

6 Divide the radical expressions and simplify the answer

$$\frac{x\sqrt{5}+2xz^2\sqrt{2x}}{3z\sqrt{7z}}$$

a	$\sqrt{35z} + 2z^2x\sqrt{14zx}$	b	$x\sqrt{35z} - 2z^3x\sqrt{14x}$
	21		$21z^{3}$
C	$x\sqrt{35}+2z^2x\sqrt{14zx}$	d	$x\sqrt{35z^{-1}}+2z^2x\sqrt{14zx}$
	$21z^{4}$		21
е	$x^3\sqrt{35z} - 2z^2x\sqrt{14zx}$	f	$x\sqrt{35z}+2z^2x\sqrt{14zx}$
	$21z^{4}$		${21z^{2}}$

Divide the radical expressions and simplify the answer

$$\frac{m\sqrt{11}+4b^2\sqrt{3}}{3m^2\sqrt{3}}$$

а	$\frac{m+12b^2}{9m}$	b	$\frac{m^2\sqrt{33}+12b^2}{9m^3}$
C	$\frac{\sqrt{33}+12mb^2}{3m}$	d	$\frac{m\sqrt{33}+12m^{-1}b^2}{9m^2}$
е	$\frac{m\sqrt{33}+12}{m^2}$	f	$\frac{m\sqrt{33}+12b^2}{9m^2}$

3 Divide the radical expressions and simplify the answer

$$\frac{3d^2p^2\sqrt{13} - p\sqrt{3}}{3d^2p\sqrt{3}}$$

а	$\frac{d^2p\sqrt{3}-1}{3d^2p^{-1}}$	b	$\frac{d^2p\sqrt{39}-2}{d^2}$
C	$\frac{d^2p\sqrt{39}-1}{3d^2p}$	d	$\frac{3d^2p\sqrt{13}+\sqrt{3}}{9d^2}$
е	$\frac{d^2p+1}{d^2}$	f	$\frac{d^2p\sqrt{39}-1}{3d^2}$

5 Divide the radical expressions and simplify the answer

$$\frac{x^2y\sqrt{2}+2y\sqrt{5}xy}{3x^2y^2\sqrt{7}}$$

а	$\frac{x\sqrt{14} + 2\sqrt{35y}}{21xy^{-1}}$	b	$\frac{x\sqrt{14}+2\sqrt{35y}}{21xy}$
C	$\frac{x^2\sqrt{14}+2y\sqrt{35x}}{21x^2}$	d	$\frac{x\sqrt{14} - 2\sqrt{35xy}}{21y}$
е	$\frac{x^2\sqrt{14}+2\sqrt{35xy}}{21x^2y}$	f	$\frac{x^2\sqrt{14}+\sqrt{35xy}}{21x^2y}$

7 Divide the radical expressions and simplify the answer

$$\frac{2z\sqrt{11}-n\sqrt{5nz}}{\sqrt{}}$$

$$3z\sqrt{7nz}$$

a	$\frac{2\sqrt{77nz}+n\sqrt{35}}{42z}$	b	$\frac{2\sqrt{77nz}+zn^2\sqrt{35}}{21zn^3}$
C	$\frac{3\sqrt{77nz} - n^2\sqrt{35}}{21zn}$	d	$\frac{2\sqrt{77nz} - n^2\sqrt{35}}{zn}$
е	$\frac{2\sqrt{77z} - n^2\sqrt{35}}{zn}$	f	$\frac{2\sqrt{77nz} - n^2\sqrt{35}}{21zn}$