Name

Radicals - Divide Binomials by Monomials (Values and Variables)

1 Divide the radical expressions and simplify the answer

$$\frac{4zm\sqrt{2m}+z^2m^2\sqrt{2}}{5m^2\sqrt{5z}}$$

A	$\frac{4\sqrt{10zm}+m^3z\sqrt{10z}}{25m}$	B	$4\sqrt{10z}+z\sqrt{10z}$
C	$\frac{\sqrt{10zm}-mz\sqrt{10z}}{25mz}$	D	$\frac{4\sqrt{10zm}+mz\sqrt{10z}}{25m}$
E	$\frac{4\sqrt{10zm}-mz^3\sqrt{10z}}{25m^2}$		

2 Divide the radical expressions and simplify the answer

$$\frac{5p^2\sqrt{3}+p^2b^2\sqrt{11}}{4pb\sqrt{3pb}}$$

A	$\frac{15\sqrt{pb}+b\sqrt{33pb}}{b^2}$	B	$\frac{15\sqrt{pb}+b^2\sqrt{33pb}}{12p^{-1}b^2}$
C	$\frac{15\sqrt{pb}+b^2\sqrt{33pb}}{12b^2}$	D	$\frac{15\sqrt{pb}+b^2\sqrt{33pb}}{b^2}$

3 Divide the radical expressions and simplify the answer

$$\frac{mc\sqrt{2mc}-2c\sqrt{11mc}}{4mc^2\sqrt{7m}}$$

A	$\frac{m\sqrt{14c}-2\sqrt{77c}}{28mc}$	B	$\frac{mc^{-1}\sqrt{14c}+2\sqrt{77c}}{28m^3c}$
C	$\frac{m\sqrt{14c}-2c\sqrt{77}}{28m}$	D	$\frac{m^2\sqrt{14c}+2\sqrt{77c}}{mc}$
E	$\frac{m\sqrt{14c}+3\sqrt{77c}}{mc}$		

4 Divide the radical expressions and simplify the answer

$$\frac{3y\sqrt{13y}-y^2\sqrt{13}}{2y\sqrt{7m}}$$

A	$\frac{4\sqrt{91my}+y\sqrt{91m}}{m}$	B	$\frac{3\sqrt{91my}-y\sqrt{91m}}{14m}$
C	$\frac{3\sqrt{91my}+ym\sqrt{91}}{m}$	D	$\frac{3\sqrt{91my}-y\sqrt{91m^{-1}}}{m}$
E	$\frac{3\sqrt{91my}+y\sqrt{91}}{m}$		

5 Divide the radical expressions and simplify the answer

$$\frac{3c^2\sqrt{7r}+rc\sqrt{2}}{3\sqrt{2rc}}$$

A	$\frac{3c\sqrt{42c}-\sqrt{3rc}}{18}$	B	$3c\sqrt{14c}+2\sqrt{rc}$
C	$\frac{3c^{-1}\sqrt{14c}+2\sqrt{rc}}{4}$	D	$\frac{3c\sqrt{14}-2\sqrt{rc}}{2}$
E	$\frac{3c\sqrt{14c}+2\sqrt{rc}}{6}$		

6 Divide the radical expressions and simplify the answer

$$\frac{3r^2\sqrt{5b}-r\sqrt{7b}}{3b^2r^2\sqrt{2}}$$

A	$\frac{3r\sqrt{10b}-\sqrt{14b}}{6b^2r^3}$	B	$\frac{3r\sqrt{10}-\sqrt{14b}}{b^2r}$
C	$\frac{3r\sqrt{10b}-\sqrt{14b}}{6b^2r}$	D	$\frac{3r^3\sqrt{10b}+\sqrt{14b}}{6b^2r}$
E	$\frac{3r\sqrt{10b}-\sqrt{14b}}{6b^4r}$		

7 Divide the radical expressions and simplify the answer

$$\frac{2r\sqrt{5}-pr^2\sqrt{11}}{4pr\sqrt{13}}$$

A	$\frac{2\sqrt{65}-r\sqrt{143}}{52pr}$	B	$\frac{2\sqrt{65}-pr}{52p}$
C	$\frac{2\sqrt{65}-pr\sqrt{143}}{52p}$	D	$\frac{4\sqrt{65}-pr\sqrt{143}}{p}$
E	$\frac{2\sqrt{65}-p\sqrt{143}}{p}$		

8 Divide the radical expressions and simplify the answer

$$\frac{dz\sqrt{5d}+2\sqrt{5z}}{4d^2\sqrt{5z}}$$

A	B	C	D	E
$\frac{d\sqrt{zd}+2}{4d^2}$	$\frac{d\sqrt{zd}-2}{2d^2}$	$\frac{d^2\sqrt{zd}+2}{4d^2}$	$\frac{d^2\sqrt{zd}+2}{d^2}$	$\frac{d\sqrt{zd}+2}{d^2}$