Name

# Radicals - Divide Binomials by Monomials (Values and Variables)

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

$$\frac{mc\sqrt{5mc}-3c\sqrt{5mc}}{mc\sqrt{11mc}}$$

| | | | |
|---|---|---|---|
| A | $\frac{m\sqrt{55}-\sqrt{55}}{11m}$ | B | $\frac{m\sqrt{55}-3\sqrt{55}}{m}$ |
| C | $\frac{m\sqrt{55}-2\sqrt{55}}{5m}$ | D | $\frac{m\sqrt{55}-3\sqrt{55}}{11m}$ |
| E | $\frac{m\sqrt{55}-3}{m}$ | | |

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

$$\frac{d\sqrt{7}-2m\sqrt{11}}{dm^2\sqrt{5}}$$

| | | | |
|---|---|---|---|
| A | $\frac{d\sqrt{35}+m\sqrt{55}}{5dm^3}$ | B | $\frac{d+2m\sqrt{55}}{2dm^2}$ |
| C | $\frac{d\sqrt{35}-2m\sqrt{55}}{5dm^2}$ | D | $\frac{4d\sqrt{35}+2m\sqrt{55}}{5d}$ |
| E | $\frac{\sqrt{35}-2m\sqrt{55}}{m^2}$ | | |

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

$$\frac{m\sqrt{7pm}+3p^2\sqrt{5}}{p\sqrt{5pm}}$$

| | | | |
|---|---|---|---|
| A | $\frac{m^2\sqrt{35}-15p\sqrt{pm^{-1}}}{5pm^2}$ | B | $\frac{m^2\sqrt{35}+15p\sqrt{pm}}{5pm}$ |
| C | $\frac{m^2\sqrt{35}-15p^2\sqrt{m}}{5p^3m}$ | D | $\frac{m^2+15p\sqrt{pm}}{5p^{-1}m}$ |
| E | $\frac{m^2\sqrt{35}+15p^{-1}\sqrt{pm}}{5p^2m}$ | | |

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

$$\frac{bz\sqrt{5bz}+5z\sqrt{3z}}{z\sqrt{11bz}}$$

| | | | |
|---|---|---|---|
| A | $\frac{b\sqrt{55}+5\sqrt{33}}{5}$ | B | $\frac{b^2-5\sqrt{33b}}{11b}$ |
| C | $\frac{zb^2\sqrt{55}+5\sqrt{33b}}{3b}$ | D | $\frac{b\sqrt{55}+5\sqrt{33b}}{2}$ |
| E | $\frac{b^2\sqrt{55}+5\sqrt{33b}}{11b}$ | | |

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

$$\frac{nd\sqrt{7n}-4d^2\sqrt{13}}{d^2\sqrt{3n}}$$

| | | | |
|---|---|---|---|
| A | $\frac{n^2\sqrt{21}-4d\sqrt{39n}}{3dn}$ | B | $\frac{n\sqrt{21}-4d\sqrt{39}}{3d^3}$ |
| C | $\frac{n\sqrt{21}-4d\sqrt{39}}{3d^{-1}}$ | D | $\frac{\sqrt{21}+4d\sqrt{39n}}{3dn^{-1}}$ |
| E | $\frac{n^2\sqrt{21}+4d\sqrt{39n^{-1}}}{3dn}$ | | |

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

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

| | | | |
|---|---|---|---|
| A | $\frac{c\sqrt{33cp}+4pc\sqrt{33}}{3p^2}$ | B | $\frac{c\sqrt{33cp}+pc\sqrt{33}}{3p}$ |
| C | $\frac{\sqrt{33cp}+4p}{3p^2c}$ | D | $\frac{c\sqrt{33cp}+4pc^{-1}\sqrt{33}}{p^2}$ |
| E | $\frac{5c\sqrt{33cp}+4pc\sqrt{33}}{3p^2c^{-1}}$ | | |

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

$$\frac{dp\sqrt{5}-3\sqrt{13p}}{p\sqrt{13}}$$

| | | | |
|---|---|---|---|
| A | $\frac{pd\sqrt{65}-39\sqrt{p^{-1}}}{p}$ | B | $\frac{d\sqrt{130}-39\sqrt{2p}}{26}$ |
| C | $\frac{d\sqrt{65}+39}{13p}$ | D | $\frac{pd\sqrt{65}-\sqrt{p}}{13p}$ |
| E | $\frac{pd\sqrt{65}-39\sqrt{p}}{13p}$ | | |

**8** Divide the radical expressions and simplify the answer

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

| | | | |
|---|---|---|---|
| A | $\frac{2n^2\sqrt{286r}+r^2\sqrt{13n}}{13n}$ | B | $\frac{4n\sqrt{143nr}-r^2\sqrt{26n}}{13n}$ |
| C | $\frac{4n\sqrt{143nr}+r^2\sqrt{26n^{-1}}}{13}$ | D | $\frac{4\sqrt{143nr}+r^2\sqrt{26}}{13n}$ |