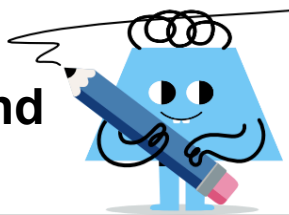
Name

Radicals - Divide Monomials (Values and Variables)



1 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{12x^2}}{\sqrt{75x^3}}$$

A $\frac{2}{5x^3}$ B $\frac{2\sqrt{x}}{5x}$ C $\frac{2\sqrt{x}}{x}$ D $\frac{2\sqrt{x}}{5x^2}$

2 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{32b}}{\sqrt{8b^2}}$$

A $\frac{2\sqrt{b}}{b}$ B $\frac{1}{b}$ C $\frac{5\sqrt{b}}{b}$ D $\frac{\sqrt{b}}{b^3}$ E $\frac{2}{b}$

3 Divide the radical expressions and simplify the answer

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

A $\frac{1}{4}$ B $\frac{\sqrt{3}}{6}$ C $\frac{\sqrt{6}}{6}$ D $\frac{1}{2}$

4 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{48m^3}}{\sqrt{27m^4}}$$

A $\frac{4}{5}$ B $\frac{4\sqrt{m}}{3m}$ C $\frac{\sqrt{m}}{m^2}$ D $\frac{4}{3}$ E $\frac{4\sqrt{m}}{m}$

5 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{63c^4}}{\sqrt{28}}$$

A $3c$ B $\frac{5c^2}{4}$ C $\frac{3c}{4}$ D $\frac{3c^2}{2}$ E $3c^3$

6 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{8r^4}}{\sqrt{18r^4}}$$

A $\frac{1}{3}$ B $\frac{\sqrt{2}}{3}$ C $\frac{2}{3}$ D $\frac{2\sqrt{2}}{3}$

7 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{175x^4}}{\sqrt{28x^2}}$$

A $\frac{x}{5}$ B $\frac{3x}{2}$ C $\frac{5x}{2}$ D $5x^3$ E $\frac{5x^2}{4}$

8 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{45z}}{\sqrt{20z^4}}$$

A $\frac{3\sqrt{z}}{z}$ B $\frac{3}{2z}$ C $\frac{3\sqrt{z}}{2z^2}$ D $\frac{1}{z}$ E $\frac{3}{z}$