



Radicals - Multiplying Monomials (Values and Variables) over Unit Fraction

1 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{44zt^2} \cdot \sqrt{8z^2t^4}}{\frac{1}{3}}$$

- | | |
|----------------------|----------------------|
| A $4zt^3\sqrt{22z}$ | B $36t^3\sqrt{22z}$ |
| C $36zt^3\sqrt{z}$ | D $36zt^4\sqrt{22z}$ |
| E $12zt^3\sqrt{22z}$ | |

2 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{48ny} \cdot \sqrt{75n^3}}{\frac{1}{4}}$$

- | | |
|--------------------|--------------------|
| A $n^2\sqrt{y}$ | B $60n^2\sqrt{y}$ |
| C $960n^2\sqrt{y}$ | D $240n^2\sqrt{y}$ |

3 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{80} \cdot \sqrt{48r^3t^4}}{\frac{1}{2}}$$

- | | |
|-----------------------|----------------------|
| A $64rt\sqrt{15r}$ | B $64rt^2\sqrt{15r}$ |
| C $64r^2t^2\sqrt{15}$ | D $16rt^2\sqrt{15r}$ |
| E $32rt^2\sqrt{15r}$ | |

4 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{8p^2t} \cdot \sqrt{52p^2t}}{\frac{1}{2}}$$

- | | |
|--------------------|---------------------|
| A $16p^2t$ | B $4p^2t\sqrt{26}$ |
| C p^2t | D $16p^2t\sqrt{26}$ |
| E $8p^2t\sqrt{26}$ | |

5 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{45} \cdot \sqrt{20p^4m}}{\frac{1}{2}}$$

- | | |
|--------------------|-------------------|
| A $30p^2\sqrt{pm}$ | B $120p^2$ |
| C $60p^2\sqrt{m}$ | D $120p\sqrt{pm}$ |
| E $30p^3\sqrt{m}$ | |

6 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{20t^3w^3} \cdot \sqrt{208t^2w^4}}{\frac{1}{3}}$$

- | | |
|-------------------------|-------------------------|
| A $24t^2w^3\sqrt{65tw}$ | B $8t^2w^3\sqrt{65tw}$ |
| C $72t^2w^3\sqrt{tw}$ | D $32t^2w^3\sqrt{65tw}$ |

7 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{275y} \cdot \sqrt{18ty^3}}{\frac{1}{3}}$$

- | | |
|-----------------------|----------------------|
| A $135y^2\sqrt{22yt}$ | B $15y^2\sqrt{22yt}$ |
| C $135y^2\sqrt{22t}$ | D $15y^2t\sqrt{22t}$ |
| E $45y^2\sqrt{22t}$ | |

8 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{50n^4} \cdot \sqrt{12x^4}}{\frac{1}{2}}$$

- | | |
|----------------------|-----------------------|
| A $10n^2x\sqrt{6}$ | B $40n^2x^2\sqrt{6x}$ |
| C $20n^2x^2\sqrt{6}$ | D $40n^2x^2\sqrt{6}$ |
| E $10n^2x^2$ | |