



Radicals - Cube - Simplifying from Factors, Values and Variables, Radical

Remaining

1 Simplify the radical

$$\sqrt[3]{5 \cdot 5 \cdot 5 \cdot 7 \cdot p}$$

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|-----------------|----------------|-----------------|----------------|-----------------|
| A | B | C | D | E |
| $\sqrt[3]{10p}$ | $\sqrt[3]{4p}$ | $5\sqrt[3]{7p}$ | $\sqrt[3]{8p}$ | $5\sqrt[3]{4p}$ |

2 Simplify the radical

$$\sqrt[3]{5 \cdot 5 \cdot 5 \cdot 5 \cdot x \cdot x \cdot x}$$

- | | | | | |
|-----------------|-----------------|-----------------|-------------------|-----------------|
| A | B | C | D | E |
| $3x\sqrt[3]{5}$ | $5x\sqrt[3]{7}$ | $5x\sqrt[3]{5}$ | $4x^2\sqrt[3]{6}$ | $2x\sqrt[3]{5}$ |

3 Simplify the radical

$$\sqrt[3]{3 \cdot 5 \cdot 5 \cdot 5 \cdot m \cdot m \cdot m \cdot m}$$

- | | |
|----------------------|------------------|
| A | B |
| $4m^2\sqrt[3]{6m}$ | $7m\sqrt[3]{5m}$ |
| C | D |
| $5m\sqrt[3]{3m}$ | $m\sqrt[3]{m^2}$ |
| E | |
| $8m^3\sqrt[3]{5m^2}$ | |

4 Simplify the radical

$$\sqrt[3]{3 \cdot 3 \cdot 3 \cdot 5 \cdot w \cdot w \cdot w \cdot w}$$

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|------------------|--------------------|-------------------|------------------|------------------|
| A | B | C | D | E |
| $3w\sqrt[3]{5w}$ | $6w\sqrt[3]{4w^3}$ | $w\sqrt[3]{8w^3}$ | $6w\sqrt[3]{2w}$ | $6w\sqrt[3]{3w}$ |

5 Simplify the radical

$$\sqrt[3]{3 \cdot 3 \cdot 3 \cdot 11 \cdot r \cdot r \cdot r \cdot r}$$

- | | |
|---------------------|-------------------|
| A | B |
| $2r\sqrt[3]{12r^3}$ | $r\sqrt[3]{10r}$ |
| C | D |
| $5r^2\sqrt[3]{14r}$ | $3r\sqrt[3]{11r}$ |
| E | |
| $4r\sqrt[3]{10r}$ | |

6 Simplify the radical

$$\sqrt[3]{2 \cdot 5 \cdot 5 \cdot 5 \cdot m \cdot m \cdot m \cdot m \cdot m}$$

- | | |
|---------------------|---------------------|
| A | B |
| $5m\sqrt[3]{2m^2}$ | $7m^2\sqrt[3]{m^2}$ |
| C | D |
| $m\sqrt[3]{4m^4}$ | $6m^3\sqrt[3]{m^4}$ |
| E | |
| $5m^2\sqrt[3]{m^2}$ | |

7 Simplify the radical

$$\sqrt[3]{3 \cdot 3 \cdot 3 \cdot 7 \cdot w \cdot w}$$

- | | | | | |
|--------------------|--------------------|------------------|-------------------|----------------|
| A | B | C | D | E |
| $2\sqrt[3]{10w^2}$ | $5\sqrt[3]{10w^4}$ | $\sqrt[3]{3w^2}$ | $3\sqrt[3]{7w^2}$ | $\sqrt[3]{9w}$ |

8 Simplify the radical

$$\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 7 \cdot n}$$

- | | | | |
|-----------------|-----------------|-------------------|-----------------|
| A | B | C | D |
| $4\sqrt[3]{8n}$ | $4\sqrt[3]{7n}$ | $6\sqrt[3]{8n^2}$ | $\sqrt[3]{10n}$ |