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Math worksheet on *'Radicals - Cube - Simplify From Cubed Factors, Values only, Radical Remaining (Level 1)'*. Part of a broader unit on *'Radicals - Simplifying Practice'*

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**1** Simplify the radical $\sqrt{2^2 \cdot 2^2 \cdot 2}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $1$ | $3\sqrt{4}$ | $5\sqrt{2}$ | $4\sqrt{2}$ | $5$ | $4$ |

**2** Simplify the radical $\sqrt{3^2 \cdot 3}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $3$ | $5\sqrt{6}$ | $4\sqrt{5}$ | $\sqrt{5}$ | $3\sqrt{3}$ | $\sqrt{6}$ |

**3** Simplify the radical $\sqrt{2^2 \cdot 2^2 \cdot 11}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $2\sqrt{13}$ | $4\sqrt{14}$ | $\sqrt{12}$ | $\sqrt{11}$ | $2\sqrt{11}$ | $4\sqrt{11}$ |

**4** Simplify the radical $\sqrt{2^2 \cdot 7}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $\sqrt{10}$ | $\sqrt{9}$ | $\sqrt{5}$ | $2\sqrt{7}$ | $3\sqrt{5}$ | $\sqrt{7}$ |

**5** Simplify the radical $\sqrt{2 \cdot 5^2}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $5\sqrt{3}$ | $6\sqrt{3}$ | $4\sqrt{3}$ | $2\sqrt{5}$ | $5\sqrt{2}$ | $2$ |

**6** Simplify the radical $\sqrt{2 \cdot 3^2}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $1$ | $4$ | $6$ | $3$ | $3\sqrt{2}$ | $\sqrt{5}$ |

**7** Simplify the radical $\sqrt{5^2 \cdot 11}$

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $5\sqrt{11}$ | $\sqrt{7}$ | $6\sqrt{9}$ | $5\sqrt{10}$ | $8\sqrt{9}$ | $2\sqrt{12}$ |