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

Learn online: app.mobius.academy/math/units/radicals_simplifying_intro/

**1** Simplify the radical $\sqrt{3 \cdot 5^2}$

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

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

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

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $\sqrt{6}$ | $1$ | $7\sqrt{4}$ | $3\sqrt{4}$ | $4\sqrt{3}$ | $6\sqrt{2}$ |

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

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

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $\sqrt{4}$ | $1$ | $4\sqrt{2}$ | $7\sqrt{5}$ | $4\sqrt{3}$ | $2$ |

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

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