


**mobius**

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

Learn online: [app.mobius.academy/math/units/radicals\\_simplifying\\_intro/](http://app.mobius.academy/math/units/radicals_simplifying_intro/)

**2**

Simplify the radical

$$\sqrt{2^2 \cdot 2^2 \cdot 11 \cdot y^2}.$$

**a****b****c****d****e****f**

$y^2\sqrt{14}$   $5y\sqrt{12}$   $4y\sqrt{11}$   $7y\sqrt{7}$   $6y^3\sqrt{12}$   $5y^3\sqrt{14}$

**1**

Simplify the radical

$$\sqrt{2^2 \cdot 2 \cdot b}.$$

**a****b****c****d****e****f**

$3\sqrt{b}$   $2\sqrt{2b}$   $3\sqrt{5b}$   $\sqrt{5b^2}$   $2\sqrt{b^2}$   $5\sqrt{3b^2}$

**3**

Simplify the radical

$$\sqrt{3^2 \cdot 3 \cdot r^2}.$$

**a****b****c****d****e****f**

$2r\sqrt{2}$   $2r^2\sqrt{5}$   $2r\sqrt{4}$   $3r$   $3r\sqrt{3}$   $r^2\sqrt{6}$

**4**

Simplify the radical

$$\sqrt{5^2 \cdot 5 \cdot p}.$$

**a****b****c****d****e****f**

$8\sqrt{2p}$   $5\sqrt{5p}$   $7\sqrt{p^3}$   $3\sqrt{2p^3}$   $8\sqrt{3p^2}$   $\sqrt{2p^3}$

**5**

Simplify the radical

$$\sqrt{2^2 \cdot 2^2 \cdot 7 \cdot b}.$$

**a****b****c****d****e****f**

$4\sqrt{7b}$   $6\sqrt{8b}$   $4\sqrt{4b}$   $\sqrt{4b^3}$   $2\sqrt{5b}$   $5\sqrt{5b}$

**6**

Simplify the radical

$$\sqrt{3 \cdot 5^2 \cdot x}.$$

**a****b****c****d****e****f**

$5\sqrt{3x}$   $2\sqrt{x^3}$   $6\sqrt{x}$   $3\sqrt{5x^3}$   $7\sqrt{x}$   $6\sqrt{4x}$

**7**

Simplify the radical

$$\sqrt{2^2 \cdot 2 \cdot x^2 \cdot x}.$$

**a****b****c****d****e****f**

$4x\sqrt{4x^2}$   $5x\sqrt{x^2}$   $x\sqrt{4x}$   $2x\sqrt{2x^2}$   $x\sqrt{x}$   $2x\sqrt{2x}$