Name:

Date:

Simplifying Radical Expressions

Simplify.

1) $\sqrt{125\ a}$

2) $4\ \sqrt{36\ x^2\ y^3\ z^4}$

3) $\sqrt{216\ m^4}$

4) $\sqrt{405}$

5) $5\ \sqrt{80\ x^2}$

6) $\sqrt{16\ a^4\ b^3}$

7) $2\ \sqrt{8\ x^2\ y^3\ r}$

8) $\sqrt{35\ x^2}$

9) $\sqrt{49\ x^3\ y^3}$

10) $\sqrt{4\ x^2}$

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1) $\sqrt{125\ a}$

$5\sqrt{5\ a}$

2) $4\sqrt{36\ x^2\ y^3\ z^4}$

$24\ z^2.\ x.\ y\sqrt{y}$

3) $\sqrt{216\ m^4}$

$6\ \mathbf{m}^2\sqrt{6}$

4) $\sqrt{405}$

$9\sqrt{5}$

5) $5\sqrt{80\ x^2}$

$20\ x\sqrt{5}$

6) $\sqrt{16\ a^4\ b^3}$

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

7) $2\sqrt{8\ x^2\ y^3\ r}$

$4\ x.\ y\sqrt{2\ q\ r}$

8) $\sqrt{35\ x^2}$

$\sqrt{35}\ x$

9) $\sqrt{49\ x^3\ y^3}$

$7\ x\ .\ y\sqrt{x\ y}$

10) $\sqrt{4\ x^2}$

$2\ x$