

Simplifying Radicals - Practice Worksheet

Name: _____ Date: _____

Instructions: Simplify each radical completely. Write your answer in simplest radical form. Show your work by identifying the largest perfect-square factor first.

1. Simplify: $\sqrt{16}$

.....

2. Simplify: $\sqrt{50}$

.....

3. Simplify: $\sqrt{72}$

.....

4. Simplify: $\sqrt{98}$

.....

5. Simplify: $\sqrt{48}$

.....

6. Simplify: $\sqrt{200}$

.....

7. Simplify: $\sqrt{180}$

.....

8. Simplify: $3\sqrt{75}$

.....

9. Simplify: $\sqrt{x^4}$

.....

10. Simplify: $\sqrt{50x^6}$

.....

Answer Key

1. 4

2. $5\sqrt{2}$

3. $6\sqrt{2}$

4. $7\sqrt{2}$

5. $4\sqrt{3}$

6. $10\sqrt{2}$

7. $6\sqrt{5}$

8. $15\sqrt{3}$

9. x^2

10. $5x^3\sqrt{2}$