

I can simplify radicals. I can simplify radicals with variables in the radicand.

1. What does it mean to have the following?

a. 3^2

b. 2^5

2. What does it mean to have the following?

a. $\sqrt{81}$

b. $\sqrt[4]{81}$

What happens when I ask you to simplify $\sqrt{20}$?

Exact answer:

Simplify each radical expression.

1. $\sqrt{108}$

2. $\sqrt{36}$

3. $\sqrt{32}$

4. $\sqrt{175}$

5. $\sqrt{96}$

6. $\sqrt{14}$

I can simplify radicals. I can simplify radicals with variables in the radicand.

7. $5\sqrt{16}$

8. $7\sqrt{200}$

9. $\sqrt[3]{343}$

9. $\sqrt[3]{24}$

10. $\sqrt[3]{128}$

11. $\sqrt{x^{10}}$

12. $\sqrt{a^5b^6}$

13. $\sqrt{27m^7}$

14. $\sqrt[3]{x^6}$

15. $\sqrt[3]{uv^{10}w^{12}}$

16. $\sqrt[3]{27m^7}$

Independent Practice:

1. $\sqrt{45p^2}$

2. $\sqrt[3]{x^7}$

3. $\sqrt{80x^3}$

4. $\sqrt[3]{24x^3y^3}$

5. $\sqrt{75x^2y}$

6. $\sqrt[3]{16u^4v^3}$

7. $-4\sqrt{36y^3}$

8. $6\sqrt{150r}$

9. $\sqrt[3]{64m^3n^3}$