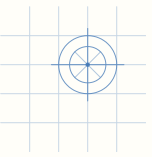


Simplifying radicals — Cube roots

Name: _____

Date: _____



Simplify each cube root.

① $\sqrt[3]{135}$

$$\begin{aligned} 135 &= 27 \times 5 \\ &= \sqrt[3]{27} \times \sqrt[3]{5} \\ &= 3\sqrt[3]{5} \end{aligned}$$

② $\sqrt[3]{297}$

③ $\sqrt[3]{40}$

④ $\sqrt[3]{320}$

⑤ $\sqrt[3]{324}$

⑥ $\sqrt[3]{54}$

⑦ $\sqrt[3]{96}$

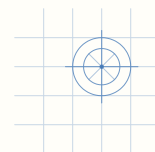
⑧ $\sqrt[3]{88}$

⑨ $\sqrt[3]{270}$

⑩ $\sqrt[3]{243}$



Simplifying radicals · Cube roots — Answer key



1. $\sqrt[3]{135} = 3\sqrt[3]{5}$

2. $\sqrt[3]{297} = 3\sqrt[3]{11}$

3. $\sqrt[3]{40} = 2\sqrt[3]{5}$

4. $\sqrt[3]{320} = 4\sqrt[3]{5}$

5. $\sqrt[3]{324} = 3\sqrt[3]{12}$

6. $\sqrt[3]{54} = 3\sqrt[3]{2}$

7. $\sqrt[3]{96} = 2\sqrt[3]{12}$

8. $\sqrt[3]{88} = 2\sqrt[3]{11}$

9. $\sqrt[3]{270} = 3\sqrt[3]{10}$

10. $\sqrt[3]{243} = 3\sqrt[3]{9}$