

Radicals Lesson 2

Radical Expressions with an Index

Activity Answer Key

Write the following radical expressions with the appropriate index. The problems are numbered, and three problems include simple fractions using a horizontal fraction line. Also, number each problem. [There is a braille answer document "L2-Radicals-Activity-Answers.brf" that can be used to independently check answers.]

1. the cube root of one hundred twenty-five

$$\sqrt[3]{125}$$

Answer:

2. the fifth root of z

$$\sqrt[5]{z}$$

Answer: 

3. the seventh root of open fraction one over one hundred twenty-eight close fraction

$$\sqrt[7]{\frac{1}{128}}$$

Answer:

4. the cube root of zero point zero zero eight

$$\sqrt[3]{0.008}$$

Answer:

5. the fourth root of z plus five end root

$$\sqrt[4]{z+5}$$

Answer: 

6. the fourth root of z end root plus five

$$\sqrt[4]{z} + 5$$

Answer:

7. the sixth root of x to the sixth power end root

$$\sqrt[6]{x^6}$$

Answer: 

8. the eighth root of open parenthesis y minus four close parenthesis to the eighth power end root

$$\sqrt[8]{(y-4)^8}$$

Answer: 

9. the fifth root of three y z end root to the fifth power

$$\sqrt[5]{3yz}^5$$

Answer:

10. the cube root of open fraction one over sixty-four close fraction x cubed
end root

$$\sqrt[3]{\frac{1}{64}x^3}$$

Answer:

11. the fourth root of open fraction thirty-two z to the eighth power over one hundred sixty-two x to the fourth power close fraction end root

$$\sqrt[4]{\frac{32z^8}{162x^4}}$$

Answer:

