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# Radicals Practice Test

Name Key

Simplify the following expressions.

1.  $\sqrt[3]{243x^3y^3z}$   
 $81 \cdot 3$   
 $9x^2y\sqrt[3]{3xyz}$

2.  $\sqrt{\frac{108x^3y^2z}{36x^3yz}}$

$\sqrt{\frac{3x^3y}{z^8}} = \frac{\sqrt{3xy}}{z^4}$

3.  $\sqrt[3]{\frac{1}{54x^6y^9}} = \frac{1}{3x^2y^3\sqrt[3]{2}}$

4.  $\sqrt[4]{48x^{12}y^8}$   
 $16 \cdot 3$   
 $2x^3y^2\sqrt[4]{3}$

5.  $-5\sqrt{20} + \sqrt{45} - 6\sqrt{80}$   
 $-10\sqrt{5} + 3\sqrt{5} - 24\sqrt{5}$   
 $-31\sqrt{5}$

6.  $-\sqrt{4(7-3\sqrt{4})}$   
 $-2(7-3(2))$   
 $-2(7-6)$   
 $-2(1) = \boxed{-2}$

7.  $\sqrt[3]{64x^9y^6z^{12}}$   
 $\sqrt[3]{4x^3y^2z^4} = 2xyz^2\sqrt[3]{x}$

Convert the following expressions to rational exponent form. Simplify completely.

8.  $\sqrt[4]{4x^2y^4}$   
 $(4x^2y^4)^{1/4}$   
 $4^{1/4}x^{2/4}y^{4/4}$

9.  $\sqrt[8]{81x^3y^{13}z^2} \sqrt[4]{24x^2z^2}$   
 $3x^{3/4}y^{13/4}z^{1/2} \cdot 2 \cdot 3^{1/2}x^{1/2}z^{1/2}$   
 $6 \cdot 3^{1/2}x^{25/4}y^{13/4}z^{29/4}$

10.  $-13\sqrt[3]{\frac{-5x^3y}{13x^2y^3}} \sqrt[4]{\frac{108x^2}{7y^3}}$   
 $-13 \sqrt[3]{\frac{-5x^3y}{13x^2y^3}} \sqrt[4]{\frac{108x^2}{7y^3}}$

Convert the following expressions to radical form. Simplify completely.

11.  $5x^{2/3}y^{3/4}z^{1/2}$

12.  $2(5x^{3/2}y^{1/3}z)^{1/5}$

13.  $\left(\frac{2x^3y^4z}{27x^2yz^3}\right)^{1/3}$

$5\sqrt[3]{x} \sqrt[4]{y^3} \sqrt[2]{z^4}$   
 $5\sqrt[3]{x} \sqrt[4]{y^3} z^2\sqrt{z}$

$2\sqrt[5]{5x^{3/2}y^{1/3}z}$   
 $2 \cdot 5^{1/5}x^{3/10}y^{1/15}z^{1/5}$   
 $2\sqrt[5]{5z} \sqrt[2]{z} \sqrt[3]{y}$

$\left(\sqrt[3]{\frac{2x^3y^4z}{27x^2yz^3}}\right)^{-1}$   
 $\left(\sqrt[3]{\frac{2y^3}{27x^4z^3}}\right)^{-1} \left(\frac{y\sqrt[3]{2}}{3xz\sqrt[3]{x}}\right)^{-1}$   
 $\frac{3xz\sqrt[3]{x}}{y\sqrt[3]{2}}$

## Evaluating Expressions with Candy

Expression	Value
$\sqrt{16}$	4
$\sqrt[3]{27}$	3
$\sqrt[4]{64}$	2.5119
$\sqrt[5]{3125}$	5
$\sqrt[6]{216}$	3
$\sqrt[7]{343}$	7
$\sqrt[8]{512}$	4
$\sqrt[9]{729}$	9
$\sqrt[10]{1024}$	3.1623
$\sqrt[11]{1771}$	3.6881
$\sqrt[12]{4096}$	4
$\sqrt[13]{2197}$	13
$\sqrt[14]{1625}$	3.6239
$\sqrt[15]{3375}$	4.7793
$\sqrt[16]{65536}$	16
$\sqrt[17]{4913}$	17
$\sqrt[18]{5832}$	18
$\sqrt[19]{13824}$	19
$\sqrt[20]{1048576}$	16

## Radicals Review (2)

Expression	Value
$\sqrt{16}$	4
$\sqrt[3]{27}$	3
$\sqrt[4]{64}$	2.5119
$\sqrt[5]{3125}$	5
$\sqrt[6]{216}$	3
$\sqrt[7]{343}$	7
$\sqrt[8]{512}$	4
$\sqrt[9]{729}$	9
$\sqrt[10]{1024}$	3.1623
$\sqrt[11]{1771}$	3.6881
$\sqrt[12]{4096}$	4
$\sqrt[13]{2197}$	13
$\sqrt[14]{1625}$	3.6239
$\sqrt[15]{3375}$	4.7793
$\sqrt[16]{65536}$	16
$\sqrt[17]{4913}$	17
$\sqrt[18]{5832}$	18
$\sqrt[19]{13824}$	19
$\sqrt[20]{1048576}$	16

## 7-5 Practice

- What is the value of each expression?
1. 16
  2. 125
  3. 125
  4. 100
  5. 64
  6. 125
  7. 125
  8. 125
  9. 125
- Write each expression in radical form.
10.  $2^3$
  11.  $(16)^{1/2}$
  12.  $25^{1/4}$
  13.  $81^{1/3}$
  14.  $(27)^{1/3}$
  15.  $(256)^{1/4}$
  16.  $(100)^{1/2}$
  17.  $36^{1/2}$
  18.  $(100)^{1/2}$
- Write each expression in exponential form.
19.  $\sqrt{16}$
  20.  $\sqrt[3]{125}$
  21.  $\sqrt[4]{256}$
  22.  $\sqrt[5]{3125}$
  23.  $\sqrt[6]{64}$
  24.  $\sqrt[7]{49}$
  25.  $\sqrt[8]{512}$
  26.  $\sqrt[9]{729}$
  27.  $\sqrt[10]{1024}$

28. You can use the formula  $S = 4\pi r^2$  to approximate the surface area  $S$ , in square centimeters, of a sphere with radius  $r$ , in centimeters. What is the surface area of a sphere with a radius of  $4.5 \times 10^3$  centimeters? Round your answer to the nearest whole number.





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