

## N-RN.A: Skills Practice Problems

5.5 #7-42

Evaluate each expression.

7.  $\sqrt[3]{216} =$   
 $\sqrt[3]{216} = 6$

9.  $\sqrt[3]{-125} =$

11.  $\sqrt[3]{729} =$

Evaluate each expression.

13.  $\sqrt[3]{32} =$   
 $\sqrt[3]{32} = 2$

15.  $\sqrt[3]{729} =$

17.  $\sqrt[3]{-128} =$

Write each radical as a power.

19.  $\sqrt[3]{15}$   
 $\sqrt[3]{15} = 15^{\frac{1}{3}}$

21.  $\sqrt[3]{31}$

23.  $\sqrt[3]{y}$

8.  $\sqrt[3]{64} =$

10.  $\sqrt[3]{-343} =$

12.  $\sqrt[3]{-8} =$

14.  $\sqrt[3]{625} =$

16.  $\sqrt[3]{-1024} =$

18.  $\sqrt[3]{-243} =$

20.  $\sqrt[3]{5}$

22.  $\sqrt[3]{x}$

24.  $\sqrt{x}$

Write each power as a radical.

25.  $12^{\frac{1}{3}}$   
 $12^{\frac{1}{3}} = \sqrt[3]{12}$

27.  $18^{\frac{1}{4}}$

29.  $d^{\frac{1}{5}}$

Write each expression in radical form.

31.  $5^{\frac{2}{3}}$   
 $5^{\frac{2}{3}} = \sqrt[3]{5^2}$

33.  $16^{\frac{3}{4}}$

35.  $y^{\frac{4}{3}}$

Write each expression in rational exponent form.

37.  $\sqrt[3]{6^3}$   
 $\sqrt[3]{6^3} = 6^{\frac{3}{3}}$

39.  $\sqrt[3]{12^2}$

41.  $\sqrt[3]{p^7}$

26.  $7^{\frac{1}{5}}$

28.  $a^{\frac{1}{2}}$

30.  $c^{\frac{1}{6}}$

32.  $8^{\frac{5}{6}}$

34.  $x^{\frac{3}{5}}$

36.  $m^{\frac{5}{2}}$

38.  $\sqrt[3]{8^4}$

40.  $\sqrt{n^5}$

42.  $\sqrt[3]{m^3}$