

1. Find the value of ...

a.  $144^{\frac{1}{2}}$     b.  $625^{\frac{1}{4}}$     c.  $27^{\frac{1}{3}}$     d.  $\left(\frac{1}{16}\right)^{0.25}$     e.  $0.01^{\frac{1}{2}}$     f.  $\left(\frac{125}{64}\right)^{\frac{1}{3}}$     g.  $\left(\frac{1}{64}\right)^{-\frac{1}{6}}$     h.  $81^{-\frac{1}{4}}$

2. Find the value of ...

a.  $16^{\frac{3}{2}}$     b.  $1000^{\frac{2}{3}}$     c.  $32^{\frac{3}{5}}$     d.  $\left(\frac{1}{4}\right)^{\frac{5}{2}}$     e.  $\left(\frac{1}{81}\right)^{\frac{3}{4}}$     f.  $\left(\frac{27}{125}\right)^{\frac{2}{3}}$     g.  $\left(\frac{3125}{243}\right)^{\frac{4}{5}}$     h.  $625^{-\frac{3}{4}}$

3. Find the missing values

a.  $16^{\frac{3}{\square}} = 64$     b.  $\square^{\frac{2}{5}} = 25$     c.  $\left(\frac{\square}{81}\right)^{\frac{3}{4}} = \frac{8}{\square}$     d.  $\left(\frac{100}{\square}\right)^{\frac{\square}{2}} = \frac{1000}{27}$     e.  $\left(\frac{\square}{125}\right)^{\frac{2}{\square}} = 25$

4. Write in the form  $9^n$

a. 81    b. 3    c. 27    d. 243

5. Write in the form  $64^n$

a. 8    b. 4    c. 16    d. 512

6. Find the value of x

a.  $9^{\frac{x}{4}} = 3$     b.  $16^{\frac{x+2}{4}} = 2$     c.  $125^{\frac{2x-1}{6}} = 5$     d.  $27^{\frac{5x-7}{6}} = 81$   
e.  $32^{\frac{2x-3}{10}} = 4$     f.  $\left(\frac{4}{25}\right)^{5x-2} = \frac{2}{5}$     g.  $2 \times 9^{\frac{3x-7}{4}} = 6$     h.  $3 \times 4^{2x+8} = 24$

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