

Express as a Radical:

a) 
$$8^{\frac{5}{3}}$$

Express as a Radical.

a) 
$$8^{\frac{5}{3}}$$
b)  $49^{\frac{3}{2}}$ 
c)  $(-125)^{\frac{2}{3}}$ 

$$(3\sqrt{8})^{5}$$

$$(49)^{3}$$

$$(3\sqrt{-125})^{2}$$

$$\frac{1}{2}$$

Example 2 **Rewriting Powers in Radical and Exponent Form** 



- a) Write  $40^{\frac{2}{3}}$  in radical form in 2 ways.
- b) Write  $\sqrt{3^5}$  and  $(\sqrt[3]{25})^2$  in exponent form.



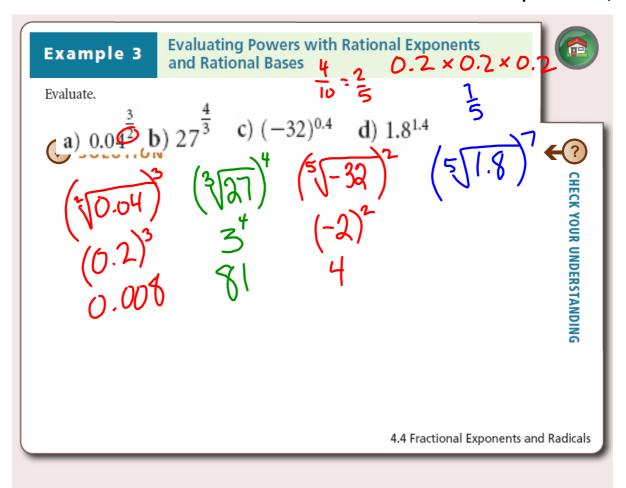
SOLUTION

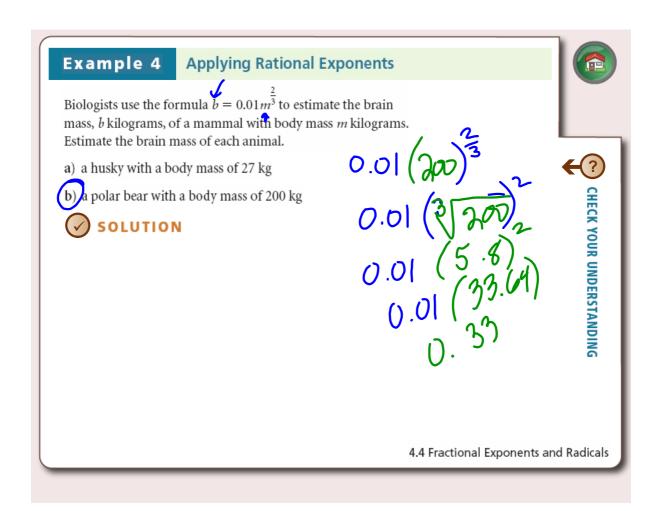




CHECK YOUR UNDERSTANDING

4.4 Fractional Exponents and Radicals





## **End of lesson**