a)
Evaluate:

$$64^{\frac{2}{3}}$$

Can you re-write the power as a unit fraction multiplied by an integer?	$64^{\frac{1}{3}\times 2}$ $= \left(64^{\frac{1}{3}}\right)^{2}$
Can you write the fractional power as a radical?	$\left(\sqrt[3]{64}\right)^{2}$
What is the value of the expression?	$(4)^2 = 16$

b)
Evaluate:

$$64^{\frac{3}{2}}$$

Can you re-write the power as a unit fraction multiplied by an integer?	$64^{\frac{1}{2}\times 3}$ $= \left(64^{\frac{1}{2}}\right)^{3}$
Can you write the fractional power as a radical?	$\left(\sqrt[2]{64}\right)^{3}$
What is the value of the expression?	

c)
Evaluate:

$$32^{\frac{3}{5}}$$

Can you re-write the power as a unit fraction multiplied by an integer?	$32^{\frac{1}{5}\times 3}$ $= \left(32^{\frac{1}{5}}\right)^{3}$
Can you write the fractional power as a radical?	
What is the value of the expression?	

d)
Evaluate:

$$10{,}000^{\frac{3}{4}}$$