Name:	Class:	Date:	Date:		
		Mark	/ 10	%	
I) Evaluate				[4	
a) $64^{\frac{1}{2}}$					
b) $27^{\frac{1}{3}}$					
c) $8^{\frac{2}{3}}$					
d) $25^{\frac{3}{2}}$					
2) Evaluate, giving your answer as an integer or simplified fraction				[1	
$125^{-\frac{4}{3}}$					
3) Give the following expression in index form				[5	
a) $\sqrt{6}$					
b) $\sqrt[3]{5}$					
c) $\sqrt[6]{6}$					
d) $(\sqrt{7})^3$ e) $\frac{1}{\sqrt[3]{5}}$					
e) $\frac{1}{\sqrt[3]{5}}$					

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Solutions for the assessment Indices Rules - Fractional Index

1) a) 8
b) 3

c) 4
d) 125

2)
$$\frac{1}{625}$$

3) a)
$$6^{\frac{1}{2}}$$
 b) $5^{\frac{1}{2}}$

c)
$$6^{\frac{1}{6}}$$
 d) $7^{\frac{3}{2}}$

e)
$$\frac{1}{5^{\frac{1}{3}}}$$
 or $5^{-\frac{1}{3}}$

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