Indices - Subtraction Rule

Name:	Class:	Date:			
		Mark	/ 12	%	

1) Evaluate the following. Where appropriate, leave your answer as a fraction.

- a) $4^{4} \div 4^{3}$ b) $\frac{2^{6}}{2^{5}}$ c) $4^{2} \div 4^{-3}$ d) $\frac{3^{4}}{3^{-1}}$
- 2) Simplify, giving your answer in index form
 - a) $6^{6} \div 6^{2}$ b) $\frac{5^{5}}{5^{3}}$ c) $3^{4} \div 3^{5}$ d) $5^{-2} \div 5^{-3}$ e) $2^{-4} \div 2^{-3}$ f) $\frac{5^{2}}{5^{4}}$ g) $\frac{6^{-3}}{6^{-6}}$ h) $\frac{5^{-4}}{5^{-3}}$

[8]

[4]

Solutions for the assessment Indices - Subtraction Rule

1) a) 4	b) 2
c) 1024	d) 243
2) a) 6 ⁴	b) 5 ²
c) 3^{-1} or $\frac{1}{3}$	d) 5 or 5 ¹
e) 2^{-1} or $\frac{1}{2}$	f) 5^{-2} or $\frac{1}{5^2}$
g) 6 ³	h) 5^{-1} or $\frac{1}{5}$

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