Name:	Class:	Date:		
		Mark	/ 12	%
1) Evaluate the following	ng. Where appropriate, leave	your answer as a fraction	l.	[6]
a) $10^3 \times 10^2$				
b) $10^4 \times 10^{-1}$				
c) $3^{-4} \times 3^{4}$				
d) $5^{-4} \times 5^2$				
e) 10×10^0				
f) $5^5 \times -5^{-6}$				
2) Simplify, giving you	r answer in index form			[6]
a) $7^5 \times 7^5$				
b) $2^5 \times 2^{-3}$				
c) $2^{-3} \times 2^{3}$				

d) $2^{-2} \times 2^{-4}$

- e) $2^{-3} \times 2$
- f) $-7^6 \times -7^3$

Solutions for the assessment Indices - Addition Rule

1) a) 100000	b) 1000
c) 1	d) $\frac{1}{25}$
e) 10	f) $-\frac{1}{5}$
2) a) 7 ¹⁰	b) 2 ²
c) 1 or 2^0	d) 2^{-6} or $\frac{1}{2^6}$
e) 2^{-2} or $\frac{1}{2^2}$	f) 7 ⁹

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