

## Indices Rules - Negative Index

Name:	Class:	Date:
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Mark	/ 10	%
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1) Evaluate, giving your answer as a simplified fraction [4]

a)  $26^{-1}$

b)  $2^{-1}$

c)  $2^{-2}$

d)  $10^{-2}$

2) Give your answer in the form  $\frac{1}{a^b}$ , where a and b are positive integers [2]

a)  $7^{-3}$

b)  $2^{-5}$

3) Give your answer in the form  $a^b$ , where a and b are integers [2]

a)  $\frac{1}{7^5}$

b)  $\frac{1}{2^5}$

4) Give your answer in the form  $\frac{a}{b^c}$ , where a, b and c are positive integers [2]

a)  $2 \times 3^{-6}$

b)  $6 \times 2^{-3}$

### Solutions for the assessment Indices Rules - Negative Index

1) a)  $\frac{1}{26}$

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

c)  $\frac{1}{4}$

d)  $\frac{1}{100}$

2) a)  $\frac{1}{7^3}$

b)  $\frac{1}{2^5}$

3) a)  $7^{-5}$

b)  $2^{-5}$

4) a)  $\frac{2}{3^6}$

b)  $\frac{6}{2^3}$