GCSE FOUNDATION · REVISION MAT 1

Index notation

1 Write each as a single power.

(a) $5^4 \times 5^3$

(b) $7^9 \div 7^2$

2 (a) Write $(3^2)^4$ as a single power of 3.

(b) Work out the value of 2^5

3 Jo says,

"$3^4 \times 3^2 = 9^6$"

Explain the mistake Jo has made.

4 Show that $4^3 \div 2^4 = 4$

5 Find the value of n.

$2^n \times 2^3 = 2^{10} \div 2^2$

6 Which is bigger, 2^{10} or 10^3?

Show how you decide.

Mr&Mrs MATHS

1 (a) 5^7

(b) 7^7

2 (a) 3^8

(b) **32**

3 When multiplying powers of the same base, add the powers but keep the base the same.

$3^4 \times 3^2 = 3^6$

ANSWERS · REVISION MAT 1

Index notation

4 $64 \div 16 = 4$ ✓

5 Right side = 2^8

$n + 3 = 8$

$n = 5$

6 $2^{10} = 1{,}024$

$10^3 = 1{,}000$

2^{10} **is bigger**

Mr&Mrs MATHS