GCSE FOUNDATION · REVISION MAT 3

Standard form

1 Write these numbers in standard form.

(a) 45 000 000

(b) 0.000 006

2 Write these as ordinary numbers.

(a) 2.45×10^{6}

(b) 1.3×10^{-2}

3 Explain why 45×10^{-3} is not written in standard form.

Write it correctly in standard form.

4 Show that 2.7×10^{8} is less than 0.3×10^{9}

5 A sheet of card is 4×10^{-2} cm thick.

1200 of them are stacked in a pile.

Work out the height of the pile in cm.

6 The length of an ant is 4×10^{-3} m.

The length of a beetle is 2.8×10^{-2} m.

How many times longer is a beetle than an ant?

Mr&Mrs MATHS

1 (a) **4.5×10^{7}**

(b) **6×10^{-6}**

2 (a) **2 450 000**

(b) **0.013**

3 The first number must be at least 1 and less than 10.

4.5×10^{-2}

ANSWERS · REVISION MAT 3

Standard form

4 $0.3 \times 10^{9} = 3 \times 10^{8}$

so 2.7×10^{8} is **less** ✓

5 $1200 \times 4 \times 10^{-2}$

= **48 cm**

6 $(2.8 \times 10^{-2}) \div (4 \times 10^{-3})$

= **7** times longer

Mr&Mrs MATHS