GCSE FOUNDATION · REVISION MAT 1

Standard form

1 Write these numbers in standard form.

(a) 6 300 000

(b) 0.000 48

2 Write these as ordinary numbers.

(a) 3.7×10^{5}

(b) 2.06×10^{-3}

3 Explain why 23×10^{4} is not written in standard form.

Write it correctly in standard form.

4 Show that 4.2×10^{5} is greater than 39×10^{4}

5 A sheet of paper is 8×10^{-3} cm thick.

2500 of them are stacked in a pile.

Work out the height of the pile in cm.

6 The length of a virus is 1.2×10^{-7} m.

The length of a bacterium is 3.6×10^{-6} m.

How many times longer is a bacterium than a virus?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Standard form

1 (a) **6.3×10^{6}**

(b) **4.8×10^{-4}**

2 (a) **370 000**

(b) **0.002 06**

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

2.3×10^{5}

4 $39 \times 10^{4} = 3.9 \times 10^{5}$

so 4.2×10^{5} is **greater** ✓

5 $2500 \times 8 \times 10^{-3}$

= **20 cm**

6 $(3.6 \times 10^{-6}) \div (1.2 \times 10^{-7})$

= **30** times longer

Mr&Mrs MATHS