GCSE HIGHER · REVISION MAT 2

Standard form

1 Write 0.00067 in standard form.

2 Write 7.08×10^5 as an ordinary number.

3 Write in order, smallest first.

3.1×10^4, 2.9×10^5, 4×10^3

4 A population is 6.7×10^7.

2.1×10^7 people are under 25.

What percentage are under 25?

5 Show that

$(6 \times 10^3)^2 = 3.6 \times 10^7$

6 A hard drive holds 2×10^{12} bytes.

A photo uses 4×10^6 bytes.

How many photos fit?

7 Show that

$\sqrt{1.6 \times 10^9} = 4 \times 10^4$

8 A carbon atom has a mass of 2×10^{-23} g.

How many carbon atoms are in 1 g of carbon?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Standard form

1 6.7×10^{-4}

2 708 000

3 4×10^3, 3.1×10^4, 2.9×10^5

4 $\frac{2.1}{6.7} \times 100$

31.3%

5 36×10^6

$= 3.6 \times 10^7$

6 $\frac{2 \times 10^{12}}{4 \times 10^6}$

5×10^5 photos

7 $1.6 \times 10^9 = 16 \times 10^8$

$\sqrt{16} \times \sqrt{10^8}$

$= 4 \times 10^4$

8 $1 \div (2 \times 10^{-23})$

$= 0.5 \times 10^{23}$

5×10^{22}

Mr&Mrs MATHS