600 16 + 5

= 600

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1. Work out $\frac{0.06 \times 0.0003}{0.01}$

Give your answer in standard form.

$$0.06 = 6 \times 10^{-2}$$

$$0.01 = 1 \times 10^{-2}$$

$$= \frac{6 \times 10^{-2} \times 3 \times 10^{-4}}{1 \times 10^{-2}}$$

$$= \frac{18 \times 10^{-6}}{1 \times 10^{-2}}$$

Standard Form

20×104

where oc<10

$$= \frac{1.8 \times 10^{-5}}{1 \times 10^{-2}}$$

1.8×10-3

(Total for Question is 3 marks)

Edexcel Maths GCSE - Standard Form (F)

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2. Work out $(13.8 \times 10^7) \times (5.4 \times 10^{-12})$ Give your answer as an ordinary number.

$$(13.8 \times 10^{7}) \times (5.4 \times 10^{-12})$$

= $13.8 \times 6.4 \times 10^{7} \times 10^{-12}$
= 74.62×10^{-5}
= 0.0007462



0.0007452

(Total for Question is 2 marks)



$$\Delta \operatorname{crct} = \frac{1}{2} \square \operatorname{crcs}$$

$$= \frac{1}{2} \times \operatorname{AB} \times \operatorname{BC}$$

$$= \frac{1}{2} \times 3 \times 3 \times 3 \times 3 \times 3 \times \times$$

Area of
$$\Delta = \text{setting up an equation in } x$$

$$320 \times 320 \times \frac{1}{2} \approx 162 \quad 0$$

$$\frac{9}{2} \times^2 \approx 162$$

$$20 \times \frac{9}{2} \times 162 = \frac{162 \times 2}{2} \times 0$$

$$20 \times \frac{9}{2} \times 162 = \frac{162 \times 2}{2} \times 0$$

$$20 \times \frac{9}{2} \times 162 \times 0$$

$$20 \times \frac{9}{2} \times 162 \times 0$$

$$20 \times \frac{9}{2} \times 162 \times 0$$

3. Work out the value of $\frac{2.645 \times 10^9}{1.15 \times 10^3}$

Give your answer in standard form. Laws of Indices:

$$\frac{2.645}{1.15} \times \frac{10^9}{10^3} = \alpha^{n-m}$$

1 1 1 2.3
$$\times$$
 10⁶ \leftarrow (already in Standard form)

2.3×10°

(Total for Question is 2 marks)

4. (a) Write 32 460 000 in standard form.

(value between 1 and 10) × 10x

3.246 × 10³

(b) Write 4.96×10^{-3} as an ordinary number.

0.00496/

Asma was asked to compare the following two numbers.

$$A = 6.212 \times 10^8$$
 and $B = 4.73 \times 10^9$

She says,

"6.212 is bigger than 4.73 so A is bigger than B."

(c) Is Asma correct?
You must give a reason for your answer.

No, B is larger become the power of 10 is greater

(1)

(Total for Question is 3 marks)

5. Work out
$$(3.42 \times 10^{-7}) \div (7.5 \times 10^{-6})$$

Give your answer in standard form.

$$\frac{\alpha^{x}}{\alpha^{y}} = \alpha^{x-y}$$

$$\frac{3.42 \times 10^{-7}}{7.5 \times 10^{-6}} = 0.456 \times \frac{10^{-7}}{10^{-6}} = 0.456 \times 10^{-7-(-6)} = 0.456 \times 10^{-7+6}$$

$$= 0.456 \times 10^{-1} = 4.56 \times 10^{-2}$$

Start with the smallest number.

6. Write these numbers in order of size.

Standard form:
$$A \times 10^n$$
 (| $A \times 10^n$)

Start with the smallest number.

0.000672 67.2x10-4 6.72x105 672x104

(Total for Question is 2 marks)