I&s5

Standard form and calculators

Name

$a \times 10^n$
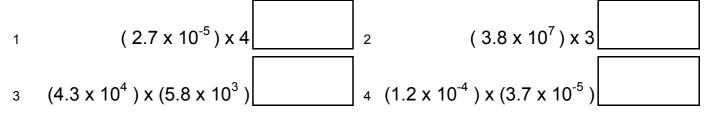
You need a calculator!

On many calculators 7.2×10^3 is entered as 7.2 EXP 3

A Use your calculator to work these out, giving your answer in standard form

1    $4.3 \times 10^4 + 2.7 \times 10^5$

2    $1.3 \times 10^6 + 4.7 \times 10^7$

3    $4.3 \times 10^6 - 2.7 \times 10^5$

4    $6.5 \times 10^4 - 2.7 \times 10^3$

5    $8.8 \times 10^7 - 2.7 \times 10^6$

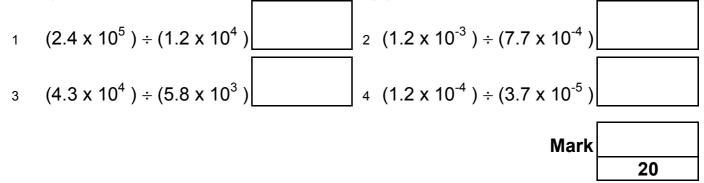6 $9.11 \times 10^4 + 3.8 \times 10^3$

B Use your calculator to work these out, giving your answer in standard form

1    $4.3 \times 10^{-4} + 2.7 \times 10^{-5}$

2    $1.3 \times 10^{-5} + 4.7 \times 10^{-6}$

3    $4.3 \times 10^{-4} - 2.7 \times 10^{-4}$

4    $6.5 \times 10^{-12} - 2.7 \times 10^{-13}$

5    $8.8 \times 10^{-3} - 2.7 \times 10^{-4}$

6    $7.66 \times 10^{-6} + 3.8 \times 10^{-5}$

C Use your calculator to work these out, giving your answer in standard form

1    $(2.7 \times 10^{-5}) \times 4$

2    $(3.8 \times 10^7) \times 3$

3    $(4.3 \times 10^4) \times (5.8 \times 10^3)$

4    $(1.2 \times 10^{-4}) \times (3.7 \times 10^{-5})$

D Use your calculator to work these out, giving your answer as an ordinary number

1    $(2.4 \times 10^5) \div (1.2 \times 10^4)$

2    $(1.2 \times 10^{-3}) \div (7.7 \times 10^{-4})$

3    $(4.3 \times 10^4) \div (5.8 \times 10^3)$

4    $(1.2 \times 10^{-4}) \div (3.7 \times 10^{-5})$

Mark

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