

Mathematics

# Multiplying and Dividing in Standard Form

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## Connect Your turn

Give your answer in  
standard form

$$1.2 \times 10^4 \times 5 \times 10^5$$

$$1.8 \times 10^7 \div 2 \times 10^6$$

$$6 \times 10^{-6} \times 3 \times 10^{-3}$$

$$9 \times 10^8 \div 3 \times 10^{-2}$$



# Questions

Without using a calculator, work out:

Give your answer in standard form.

a)  $2 \times 10^2 \times 3 \times 10^5$

b)  $5 \times 10^5 \times 6 \times 10^3$

c)  $7 \times 10^{-7} \times 2 \times 10^3$

d)  $4 \times 10^{10} \times 5 \times 10^{10}$

e)  $2.4 \times 10^3 \times 4 \times 10^2$

f)  $8 \times 10^{-6} \times 2 \times 10^{-4}$



# Questions

2) Without using a calculator, work out:

Give your answer in standard form.

a)  $(5 \times 10^4) \div (5 \times 10^2)$

b)  $(5 \times 10^5) \div (2 \times 10^3)$

c)  $(2.1 \times 10^{-6}) \div (7 \times 10^5)$

d)  $(1 \times 10^{10}) \div (4 \times 10^9)$

e)  $(6.2 \times 10^8) \div (3.1 \times 10^3)$



# Questions

$$3) A = 4 \times 10^5$$

$$B = 3000$$

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

Work out, giving your answer in standard form:

$$a) B \div A$$

$$b) C^2$$

