

Standard Form - adding / multiplying / dividing

Name:

Class:

Date:

Mark

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1) Work out and express your answer in standard form

[16]

a) $(7.3 \times 10^3) + (1.4 \times 10^3)$

b) $(4.9 \times 10^7) + (3.1 \times 10^7)$

c) $(4.4 \times 10^{-2}) + (1.5 \times 10^{-2})$

d) $(4.6 \times 10^{-2}) + (1.8 \times 10^{-2})$

e) $(4.4 \times 10^{-4}) - (3.9 \times 10^{-4})$

f) $(6.9 \times 10^4) - (1.3 \times 10^4)$

g) $(6.4 \times 10^5) \times (1.1 \times 10^2)$

h) $(3.3 \times 10^2) \times (2.4 \times 10^2)$

i) $(4.3 \times 10^{-3}) \times (1.5 \times 10^{-5})$

j) $(8.3 \times 10^{-5}) \times (1.1 \times 10^{-4})$

k) $(4.9 \times 10^{-3}) \times (1.5 \times 10^4)$

l) $(2.6 \times 10^{-4}) \times (3.6 \times 10^5)$

m) $(8.88 \times 10^8) \div (1.2 \times 10^3)$

n) $(9.13 \times 10^9) \div (1.1 \times 10^4)$

o) $(6.05 \times 10^{-7}) \div (1.1 \times 10^{-4})$

p) $(6.56 \times 10^{-8}) \div (1.6 \times 10^{-3})$

2) Work out and express your answer in standard form, rounding your answer to 2 decimal places if necessary.

[2]

a) $(6.6 \times 10^{-3})^5$

b) $(8.5 \times 10^2)^6$

Solutions for the assessment Standard Form - adding / multiplying / dividing

1) a) 8.7×10^3

b) 8×10^7

c) 5.9×10^{-2}

d) 6.4×10^{-2}

e) 0.5×10^{-4}

f) 5.6×10^4

g) 7.04×10^7

h) 7.92×10^4

i) 6.45×10^{-8}

j) 9.13×10^{-9}

k) 7.35×10^1

l) 9.36×10^1

m) 7.4×10^5

n) 8.3×10^5

o) 5.5×10^{-3}

p) 4.1×10^{-5}

2) a) 1.25×10^{-11}

b) 3.77×10^{17}