1 (a)   Work out $\dfrac{2 \times 10^{14}}{8 \times 10^{9}}$

Give your answer in standard form.

[2 marks]

_____

_____

_____

_____

Answer _____

1 (b) $6200.07 = 6.2 \times 10^{c} + 7 \times 10^{d}$

Work out the values of c and d.

[2 marks]

_____

_____

$c =$ _____ $d =$ _____

2 (a)   Work out $2000 \times 70\,000$

Give your answer in standard form.

[2 marks]

_____

_____

_____

_____

_____

_____

_____

_____

Answer _____

2 (b)   Work out $\dfrac{1.8 \times 10^2}{3 \times 10^{-1}}$

Give your answer as an ordinary number.

[2 marks]

_____

_____

_____

_____

_____

_____

_____

_____

Answer _____

3   Work out   80 000 000 ÷ 200

Give your answer in standard form.

[2 marks]

Answer _____

4 (a) $b \times 10^n$ is the number 7200 written in standard form.

Work out $b \times 10^{-n}$

Write your answer as an ordinary number.

[2 marks]

Answer _____

5 What is 1.8×10^{-4} as an ordinary number?

Circle your answer.

[1 mark]

$-180\,000$ $\qquad$ $-18\,000$ $\qquad$ $0.000\,18$ $\qquad$ $0.000\,018$

6   Work out $(2.5 \times 10^4)^{-3}$

Give your answer in standard form.

[1 mark]

Answer   _____