

Standard Form

ANSWERS

Calculator | 30 minutes | Total marks: 19

Name _____ Class _____

1 (a) Work out 10^3

Answer 1000 (1) [1 mark]

(b) Work out 10^5

Answer 100 000 (1) [1 mark]

(c) Write 10 000 as a power of 10

Answer 10^4 (1) [1 mark]

2 Write each of these as an ordinary number.

(a) 3×10^2

Answer 300 (1) [1 mark]

(b) 4.5×10^3

Answer 4500 (1) [1 mark]

(c) 7×10^4

Answer 70 000 (1) [1 mark]

3

Write each number in standard form.

(a) 5000

Answer 5×10^3 (1) [1 mark]

(b) 80 000

Answer 8×10^4 (1) [1 mark]

(c) 6200

Answer 6.2×10^3 (1) [1 mark]

(d) 340 000

Answer 3.4×10^5 (1) [1 mark]

4

(a) Write 2×10^{-2} as an ordinary number.Answer 0.02 (1) [1 mark]

(b) Write 0.005 in standard form.

Answer 5×10^{-3} (1) [1 mark]

5

Which one of these numbers is written in standard form?

 25×10^3 2.5×10^4 0.25×10^5 Answer 2.5×10^4 (1) [1 mark]

6

Which is bigger, 3×10^4 or 8×10^3 ?You **must** show your working.30 000 and 8000 (1)Answer 3×10^4 (1) [2 marks]

7

Work out

Give each answer in standard form.

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

Answer 6×10^3 (1)

[1 mark]

(b) $(2 \times 10^2) \times (3 \times 10^4)$

$2 \times 3 = 6$ (1)

Answer 6×10^6 (1)

[2 marks]

8

The population of a town is 4×10^4

Write this as an ordinary number.

Answer $40\,000$ (1)

[1 mark]

Question	Topic	RAG
1	I can work with powers of 10	
2	I can change standard form to ordinary numbers	
3	I can write large numbers in standard form	
4	I can work with small numbers in standard form	
5	I can recognise standard form	
6	I can compare numbers in standard form	
7	I can multiply in standard form	
8	I can read standard form in context	