

Standard Form

Syllabus tracker [Open it online](#)

Name: _____

Date: _____

Tick one circle for each statement — on screen (click) or with a pen. Then try the quick checks: write your answer in the box, check it against the answers at the end, and tick “right” when you got it. ★ = IGCSE Extended tier only.

Writing numbers in standard form

Large and small numbers in standard form, and ordering them.

	Don't know	Shaky	Got it
I can write a large number in standard form.	☐	☐	☐
I can write a small number in standard form.	☐	☐	☐
I can order numbers written in standard form.	☐	☐	☐

Calculating in standard form

The four operations with numbers in standard form, with and without a calculator.

	Don't know	Shaky	Got it
I can multiply and divide numbers in standard form without a calculator.	☐	☐	☐
I can add and subtract numbers in standard form.	☐	☐	☐

Standard form in context

Real problems with very large or very small quantities.

	Don't know	Shaky	Got it
I can solve real problems using standard form.	☐	☐	☐

Quick checks

One quick question per statement. Answer in the box, then check the answers at the end.

1. Write 4 560 000 in standard form.

A 4.56×10^6 B 45.6×10^5 C 4.56×10^5 D 0.456×10^7

Answer: _____ ☐ I got it right

2. $0.00072 = 7.2 \times 10^n$. What is n?

Answer: _____ ☐ I got it right

3. Which is the smallest?

A 3.1×10^{-2} B 9.8×10^{-3} C 1.2×10^{-2} D 5×10^{-3}

Answer: _____ ☐ I got it right

4. Work out $(3 \times 10^4) \times (4 \times 10^5)$.

A 12×10^9 B 1.2×10^{10} C 1.2×10^9 D 7×10^9

Answer: _____ ☐ I got it right

5. Work out $5 \times 10^3 + 7 \times 10^2$.

A 1.2×10^5 B 5.7×10^3 C 12×10^5 D 5.07×10^3

Answer: _____ ☐ I got it right

6. Light travels 3×10^8 m in one second. How many seconds does it take to travel 1.5×10^{11} m?

Answer: _____

☐ I got it right

Answers

Try every question first, then check.

1. A: 4.56×10^6

2. -4

3. D: 5×10^{-3}

4. B: 1.2×10^{10}

5. B: 5.7×10^3

6. 500