



EXAM PAPERS PRACTICE

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GCSE AQA Maths (8300) Foundation Tier Question Paper

Fully inlined with first assessment 2026 and suitable for
students sitting exams 2026+

Topic - Numbers

Sub Topic Test 1 - Indices - Foundation

Marks: 20

Total Marks: / 20

Topic Test 1 (20 minutes)

Indices - Foundation

Section A

10 minutes. Calculator.

1 What whole number power of 2 is 1024?

[1 mark]

Answer _____

2 Circle the number that is a power of 7

[1 mark]

14

77

343

490

3 Use your calculator to work out

3(a) $\frac{\sqrt{33.64}}{19.8 \div 9.2}$

[1 mark]

Answer _____

3(b) How much less than 1000 is 9.83?

[1 mark]

Answer _____

4 Work out $\frac{27 \cdot 35}{6^3}$

[1 mark]

Answer _____

5(a) Write $11^{20} \div 114$ as a single power of 11

[1 mark]

Answer _____

5(b) Write 45 as a single power of 2

[1 mark]

Answer _____

6 Write 91 as the sum of two cube numbers.

[1 mark]

Answer _____

- 7 Raj and his sister Zia are both at secondary school.
Raj is three years older than Zia.
The sum of the squares of their ages is 369
How old are they?

[2 marks]

Zia = _____ years old

Raj = _____ years old

Section B

10 minutes. Non-calculator. Put your calculator away. You may still work on section A but you must **not** use a calculator.

- 8 Circle the number that is **1 more** than a cube number

[1 mark]

10 26 37 65

- 9 Circle the number that is **not** a whole number power of 3

[1 mark]

9 18 27 81

- 10 Write down the value of $\sqrt{196}$

[1 mark]

Answer _____

- 11 Work out $\sqrt{2^4 \square 3^2}$

[2 marks]

Answer _____

12 Write $\sqrt{1}$ million as a power of 10

[1 mark]

Answer _____

13 Solve the equation $x^2 - 1 = 48$

[2 marks]

Answer _____

14 Tina says,

“The difference between any 2 consecutive square numbers is **always** odd.”

Is she correct?

Yes

No

Give reasons for your answer.

[2 marks]
