ENGLAND GCSE MATHS OCR HIGHER · UNIT 1 · 10 QUESTIONS

Number, Structure and Calculation — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Amara buys hardcover books for £20. She pays with £30. How much change does she get?**

A £9

B £15

C £10

D £11

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2 **Each bag holds 10 red apples. How many red apples are in 5 bags?**

A 50

B 60

C 40

D 15

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3 **Between which two whole numbers does <svg viewBox="0 0 150 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L150 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>50square root of 50 lie?**

A 6 and 7

B 8 and 9

C 7 and 9

D 7 and 8

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4 **-8 × -2 is equal to**

A 6

B 16

C 18

D 26

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5 **The lowest common multiple of 30 and 28 is**

A 422

B 30

C 420

D 416

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6 **Write <svg viewBox="0 0 101 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L101 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>8square root of 8 + <svg viewBox="0 0 101 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L101 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>2square root of 2 in the form a<svg viewBox="0 0 101 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L101 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>2square root of 2**

2<svg viewBox="0 0 101 100" preserveAspectRatio="none" aria-hidden="true"

A style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L101 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>2square root of 2

B 4<svg viewBox="0 0 101 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L101 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>2square root of 2

C <svg viewBox="0 0 150 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L150 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>10square root of 10

D 3<svg viewBox="0 0 101 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L101 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg><span

style="position:relative">2square root of 2

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7 **Write 2500 in standard form**

A 2.5×10^3

B 2.5×10^2

C 2.5×10^4

D 25×10^3

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8 **An estimate for 29.7 × 11.2 is**

A 330

B 165

C 300

D 440

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9 **In 89326, the digit 2 has the value**

A 20

B 200

C 2000

D 2

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10 **The value of <svg viewBox="0 0 150 100" preserveAspectRatio="none" aria-hidden="true" style="position:absolute;left:0;top:-.14em;width:100%;height:calc(100% + 0.14em);overflow:visible"><path d="M3 52 L21 97 L40 6 L150 6" fill="none" stroke="currentColor" stroke-width="2.6" stroke-linejoin="round" stroke-linecap="round" vector-effect="non-scaling-stroke"/></svg>49square root of 49 is**

- A 6
- B 7
- C 8
- D 14

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ANSWER KEY

1.	C	**5.**	C	**9.**	A
2.	A	**6.**	D	**10.**	B
3.	D	**7.**	A		
4.	B	**8.**	A		

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