

GCSE Maths Practice Answer Booklet

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Foundation to Intermediate | Answers and concise marking guidance for 21 original practice sheets.

F01 Number and place value

Answer key - Foundation | Non-calculator fluency.

1. 47/10,000

2. -3.2, -3.02, -0.32, 0.3

3. 8,700

4. 39

Stretch: 2

F02 Fractions

Answer key - Foundation | Show common denominators.

1. $\frac{3}{5}$

2. $\frac{7}{6} = 1 \frac{1}{6}$

3. $\frac{7}{12}$

4. 90

Stretch: 450 g

F03 Decimals and percentages

Answer key - Foundation | Convert and calculate.

1. 37.5%

2. 0.62

3. £55.20

4. £60

Stretch: 25%

F04 Ratio and proportion

Answer key - Foundation | Use equivalent ratios.

1. 3:4

2. £36 and £48

3. £6.00

4. 18 km

Stretch: 12 litres

F05 Standard arithmetic

Answer key - Foundation | Show a reliable written method.

1. 2.244

2. 21.3

3. 18

4. 24

Stretch: £13.35

F06 Powers, roots and standard form

Answer key - Foundation | Use index notation.

1. 32

2. 14

3. 6.3×10^{-4}

4. 480,000

Stretch: 6×10^7

F07 Algebra basics

Answer key - Foundation | Collect like terms and substitute.

1. $12x + 5$

2. $8y - 12$

3. $5(3a + 4)$

4. 8

Stretch: $8x + 4$

F08 Linear equations

Answer key - Foundation | Keep equations balanced.

1. $x = 5$

2. $y = 5$

3. $a = 6$

4. $m = -6$

Stretch: 12

F09 Sequences and coordinates

Answer key - Foundation | Use patterns and graphs.

1. 26, 31

2. $3n + 1$

3. 7

4. (2, 2)

Stretch: Yes, because $n = 33$.

F10 Angles and polygons

Answer key - Foundation | Give reasons.

1. 63 degrees
2. 52 degrees
3. 45 degrees
4. 540 degrees

Stretch: 12

F11 Perimeter, area and volume

Answer key - Foundation | Include correct units.

1. 63 cm²

2. 120 cm³

3. 8 cm

4. 31.4 cm

Stretch: 90 m²

F12 Pythagoras and right-angled triangles

Answer key - Foundation | Draw and label a sketch.

1. 13 cm
2. 6 m
3. $a^2 + b^2 = c^2$ for a right-angled triangle
4. No, because $6^2 + 8^2 = 100$, not 121.

Stretch: About 10 cm

F13 Transformations

Answer key - Foundation | Describe fully.

1. (3, 2)

2. (-1, 2)

3. 6 cm

4. (5, -2)

Stretch: (6, -2)

F14 Probability

Answer key - Foundation | Give answers as fractions where possible.

1. $\frac{3}{8}$

2. $\frac{5}{8}$

3. $\frac{2}{5}$

4. $\frac{1}{2}$

Stretch: 75

F15 Statistics

Answer key - Foundation | Select the right measure.

1. 9

2. 8

3. 15

4. mean

Stretch: 21

F16 Financial maths and measures

Answer key - Foundation | Calculator allowed.

1. £24
2. £19,055
3. 2,350 litres
4. 20 m/s

Stretch: 7 miles per litre

B01 Bridge: simultaneous equations

Answer key - Intermediate bridge | Grade 6 preparation.

1. $x = 9, y = 4$

2. $x = 4, y = 3$

3. pen £2; book £5

Stretch: $x = 4, y = 5$

B02 Bridge: quadratics

Answer key - Intermediate bridge | Expand and factorise.

1. $x^2 + 11x + 28$

2. $(x + 4)(x + 5)$

3. $x = 0$ or $x = 5$

4. $x = 4$ or $x = -3$

Stretch: $(x + 3)(x + 4)$

B03 Bridge: trigonometry

Answer key - Intermediate bridge | Right-angled triangles.

1. 0.6
2. 30 degrees
3. 14.5 degrees
4. tangent

Stretch: 15.4 m

B04 Bridge: graphs and gradients

Answer key - Intermediate bridge | Interpret linear functions.

1. 2

2. $y = 3x - 4$

3. 4

4. Yes

Stretch: $y = -2x + 5$

B05 Bridge: compound change

Answer key - Intermediate bridge | Multiplier methods.

1. £248.40

2. 12,300

3. 16%

4. £70

Stretch: £463.05