Mark Scheme

GCSE Resit · Predicted Paper 1F · November 2026 · Paper reference DNEP/AQA1FN26 · Total 80 marks

Answers and marking points written by DNEP Education, set out like the board mark schemes.

Question 1 · Number — 3 marks

(a) 9 B1
(b) 64 B1
(c) 3700 B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 2 · Geometry and measures — 2 marks

(a) 7.4 cm (accept 7.2 to 7.6) B1
(b) 38° (accept 36° to 40°) B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 3 · Fractions, decimals and percentages — 2 marks

0.065, 0.6, 61%, 5/8
B2 all correct; B1 three in the correct order, or all converted correctly (0.6, 0.625, 0.61, 0.065)

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 4 · Number — 3 marks

(a) 1, 2, 3, 4, 6, 9, 12, 18, 36 B2
B1 at least 6 correct factors with no more than one wrong number
(b) 2 B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 5 · Algebra — 4 marks

(a) $3a + 4b$ B1
(b) $8x - 12$ B1
(c) $3(2y + 5)$ B1
(d) m^3 B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 6 · Money and ratio — 4 marks

£1.60
M1 $3 \times 1.60 = 4.80$
M1 $7.40 - 4.80 = 2.60$ (cost of one coffee)
M1 $2 \times 2.60 + 2 \times 1.60 = 8.40$
A1 £1.60

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 7 · Probability — 6 marks

(a) adult 70, child 50; adult: swims 45, does not swim 25; child: swims 10, does not swim 40
B3 all correct; B2 at least 4 boxes correct; B1 child = 50 or adult not swim = 25
(b) 55/120 = 11/24 B1 (ft their tree)
(c) M1 total swimmers 45 + 10 = 55; A1 10/55 = 2/11 (ft their tree)

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 8 · Statistics **2 marks**

Any two of: the frequency scale is not even (8 is missing); one bar is wider than the others;
one bar has no label; the fruit axis has no label. B1 B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 9 · Number **2 marks**

(a) 88.4 B1
(b) 340 B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 10 · Fractions, decimals and percentages **4 marks**

Shop B, by £2.80
M1 10% of 85 = 8.50 and 1% = 0.85 (or 12% = 10.20)
A1 Shop A price £74.80
B1 Shop B price £72
A1 Shop B, £2.80 less

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 11 · Money and ratio **3 marks**

16
M1 64 ÷ 8 = 8
M1 red 24 and blue 40, or 2 × 8
A1 16

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 12 · Geometry and measures **3 marks**

$x = 112°$
M1 180 − 68
A1 112
B1 co-interior (allied) angles add up to 180°, or alternate angles are equal and angles on a straight line add up to 180°

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 13 · Algebra **4 marks**

11 cm
M1 $2(2x + 3) + 2(x + 4) = 38$ or $6x + 14 = 38$
M1 $6x = 24$
A1 $x = 4$
A1 length $2 \times 4 + 3 = 11$ cm (the other side is 8 cm)

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 14 · Number **2 marks**

Always; Sometimes; Never; Sometimes
B2 all four correct; B1 two or three correct

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 15 · Geometry and measures **2 marks**

Translation by the vector (5, −4), written as a column vector
B1 translation; B1 correct vector (B0 for a description that names two transformations)

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 16 · Geometry and measures **2 marks**

Correct perpendicular bisector of the 8 cm line, within 2 mm of the midpoint and 2° of 90°
B2 correct with two pairs of intersecting arcs; B1 one pair of correct arcs, or a correct line without arcs
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 17 · Fractions, decimals and percentages **3 marks**

2 2/5
M1 8/3 and 10/9
M1 8/3 × 9/10 = 72/30 (or equivalent)
A1 2 2/5
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 18 · Statistics **3 marks**

Mean increases (8 → 10) B1
Median increases (7 → 9) B1
Range stays the same (11) B1
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 19 · Number **3 marks**

(a) $2 \times 3^2 \times 5$ B2; B1 for 2, 3, 3, 5 or a correct factor tree with one error
(b) 360 B1 (ft their (a) if in the form $2^3 \times 3^2 \times 5$)
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 20 · Graphs **3 marks**

(a) −3, 1, 3 B1
(b) straight line through (−1, −3) and (3, 5) B2; B1 at least 3 points plotted correctly (ft their table)
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 21 · Probability **3 marks**

(a) A only: 9; A ∩ B: 3, 6, 12; B only: 1, 2, 4; outside: 5, 7, 8, 10, 11
B2 all correct; B1 A ∩ B correct, or 11 or 12 numbers placed correctly
(b) 3/12 = 1/4 B1 (ft their diagram)
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 22 · Algebra **2 marks**

−25
M1 −3, −11 (3rd and 4th terms)
A1 −25 (5th term −14)
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 23 · Number **2 marks**

(a) 7^8 B1
(b) x^{12} B1
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 24 · Number **2 marks**

2.4×10^9
M1 24×10^8 or 2 400 000 000
A1 2.4×10^9
DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 25 · Geometry and measures — 1 mark

1/2 B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 26 · Geometry and measures — 5 marks

(a) $100 - 25\pi$ cm²

M1 $\pi \times 5^2 = 25\pi$; A1 $100 - 25\pi$

(b) $12 + 4\pi$ cm

M1 $120/360 \times 2 \times \pi \times 6$ (or 1/3 of 12π); A1 4π; A1 $12 + 4\pi$

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 27 · Algebra — 2 marks

(a) $(x + 5)(x - 3)$ B1

(b) $x = -5$ and $x = 3$ B1 (ft their (a))

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F

Question 28 · Money and ratio — 3 marks

(a) 15 days M1 $6 \times 10 = 60$ builder-days; A1 15

(b) all the builders work at the same rate (or work the same hours each day) B1

DNEP Education · in the style of AQA GCSE Mathematics (8300) · Predicted Paper 1F