Functional Skills Maths Level 2

Mock Test 4 — Answer Key & Mark Scheme

Q1 (1 mark)

Answer: A — 3.8 × 10^6

Move decimal 6 places left: 3.8 × 10^6.

Q2 (2 marks)

Answer: A — 5p + 6q

6p + 2q − p + 4q = 5p + 6q.

Q3 (2 marks)

Answer: A — £816

£680 × 1.2 = £816.

Q4 (2 marks)

Answer: A — 4 3/20

7/4 + 12/5 = 35/20 + 48/20 = 83/20 = 4 3/20.

Q5 (2 marks)

Answer: A — x = 4

4x = 16, so x = 4.

Q6 (1 mark)

Answer: A — y^2

Subtract indices: 5 − 3 = 2.

Q7 (2 marks)

Answer: A — 7.2 cm

36 ÷ 5 = 7.2 cm.

Q8 (2 marks)

Answer: A — 8

√64 = 8, so √63.7 ≈ 8.

Q9 (2 marks)

Answer: A — £254,678

220,000 × 1.05³ = £254,678.

Q10 (2 marks)

Answer: A — £1,616.35

π × 12.25 = 38.48 m². × £42 = £1,616.35.

Q11 (2 marks)

Answer: A — 1/6

6 favourable outcomes out of 36: 1+6, 2+5, 3+4, 4+3, 5+2, 6+1. P = 6/36 = 1/6.

Q12 (2 marks)

Answer: A — 100 cm

80² + 60² = 10,000. √10,000 = 100 cm.

Q13 (2 marks)

Answer: A — 29 min

Total = 90 + 250 + 280 + 270 = 890. ÷ 30 = 29.67 ≈ 29 min.

Q14 (2 marks)

Answer: A — £330

£396 ÷ 1.2 = £330.

Q15 (2 marks)

Answer: A — 25 cm

450 ÷ 18 = 25 cm.

Q16 (2 marks)

Answer: A — $x \leq 7$

$x - 2 \leq 5$, so $x \leq 7$.

Q17 (2 marks)

Answer: A — 942.5 cm^3

$\pi \times 25 \times 12 = 942.5\ cm^3$.

Q18 (2 marks)

Answer: A — 37%

37/100 = 37%.

Q19 (2 marks)

Answer: A — 1.5 × 10^11 m

3 × 10^8 × 500 = 1500 × 10^8 = 1.5 × 10^11 m.

Q20 (3 marks)

Answer: A — £372

A = £2,400 × 0.92 = £2,208. B = £600 + £1,980 = £2,580. Difference = £372.

Q21 (2 marks)

Answer: A — 356°F

(180 × 9/5) + 32 = 324 + 32 = 356°F.

Q22 (2 marks)

Answer: A — $x^2 - 2x - 15$

$x^2 - 5x + 3x - 15 = x^2 - 2x - 15$.

Q23 (3 marks)

Answer: A — £74

Wall area = 2(5 × 2.4) + 2(4 × 2.4) = 24 + 19.2 = 43.2 m^2. 43.2 ÷ 12 = 3.6 → 4 tins. £74.

Q24 (2 marks)

Answer: A — £300

49,500 ÷ 165 = £300.

Q25 (3 marks)

Answer: A — £117.07

Standing: 3 × £7.80 = £23.40. Water: 34 × £1.45 = £49.30. Sewerage: 0.9 × £49.30 = £44.37. Total = £117.07.

Total: 49 marks | Pass mark: 29/49