Functional Skills Maths Level 2

Mock Test 3 — Answer Key & Mark Scheme

Q1 (1 mark)

Answer: A — 6.2 × 10^-4

Move decimal 4 places right: 6.2 × 10^-4.

Q2 (2 marks)

Answer: A — 6m + 3n

4m + 3m − m = 6m; −2n + 5n = 3n.

Q3 (2 marks)

Answer: A — £72

12.5% of £64 = £8. Total = £72.

Q4 (2 marks)

Answer: A — 3/10

2 × 3 = 6; 5 × 4 = 20. 6/20 simplifies to 3/10.

Q5 (2 marks)

Answer: A — x = 5

3x = 15, so x = 5.

Q6 (1 mark)

Answer: A — x^7

When multiplying, add indices: 4 + 3 = 7.

Q7 (2 marks)

Answer: A — 1.5 L

Total parts = 6. Water = 5/6 × 1.8 = 1.5L.

Q8 (2 marks)

Answer: B — 20

(80 + 20) ÷ 5 = 100 ÷ 5 = 20.

Q9 (2 marks)

Answer: A — £8,686.11

8000 × 1.042² = £8,686.11.

Q10 (2 marks)

Answer: A — 21 m²

½ × (5.6 + 8.4) × 3 = ½ × 14 × 3 = 21 m².

Q11 (2 marks)

Answer: A — 0.5

5/10 = 0.5.

Q12 (2 marks)

Answer: A — 15 m

12² + 9² = 144 + 81 = 225. √225 = 15 m.

Q13 (2 marks)

Answer: A — 1.78 kg

Total = 4 + 14.4 + 15 + 20 = 53.4. ÷ 30 = 1.78 kg.

Q14 (2 marks)

Answer: A — £25,000

£28,750 ÷ 1.15 = £25,000.

Q15 (2 marks)

Answer: A — 35 m²

Real dims 7m × 5m = 35 m².

Q16 (2 marks)

Answer: A — x > 3

x + 4 > 7, so x > 3.

Q17 (2 marks)

Answer: A — 2,262 L

r = 0.6m. π × 0.36 × 2 = 2.262 m³ = 2,262 L.

Q18 (2 marks)

Answer: A — 16/35

32/70 = 16/35 (divide by 2).

Q19 (2 marks)

Answer: A — 4.22 × 10^7

45,000,000 − 2,800,000 = 42,200,000 = 4.22 × 10^7.

Q20 (3 marks)

Answer: A — £60

Total = £3,600. New per student = £300. Extra = £60.

Q21 (2 marks)

Answer: A — £12,300

15,000 × 0.82 = £12,300.

Q22 (2 marks)

Answer: A — −3x + 17

5x + 15 − 8x + 2 = −3x + 17.

Q23 (3 marks)

Answer: A — 388 m

200 + π × 60 = 200 + 188.5 = 388 m.

Q24 (2 marks)

Answer: A — £1,200

€1,368 ÷ 1.14 = £1,200.

Q25 (3 marks)

Answer: A — £33.50

£18.50 + 75 × 0.08 + 50 × 0.04 + 2 × £3.50 = £33.50.

Total: 49 marks | Pass mark: 29/49