Functional Skills Maths Level 1

Mock Test 1 — Answer Key & Mark Scheme

Q1 (2 marks)

Answer: B — £68

20% of £85 = £17. £85 − £17 = £68.

Q2 (2 marks)

Answer: B — 7/20

0.35 = 35/100. Divide top and bottom by 5 → 7/20.

Q3 (2 marks)

Answer: B — 750g

300 ÷ 4 = 75g per person. 75 × 10 = 750g.

Q4 (2 marks)

Answer: A — 0.08, 0.65, 0.7, 0.8

Compare as hundredths: 8, 65, 70, 80.

Q5 (2 marks)

Answer: B — 60 mph

Speed = distance ÷ time = 180 ÷ 3 = 60 mph.

Q6 (2 marks)

Answer: B — 2:3

HCF(24,36) = 12. 24÷12 : 36÷12 = 2:3.

Q7 (2 marks)

Answer: B — 90

240 ÷ 8 = 30. 30 × 3 = 90.

Q8 (2 marks)

Answer: A — 10 cm

Perimeter = 2(L+W). 56 = 2(18+W) → W = 10cm.

Q9 (2 marks)

Answer: A — 1/2

Total = 10. P(blue) = 5/10 = 1/2.

Q10 (2 marks)

Answer: A — 7°C

−4 + 11 = 7°C.

Q11 (3 marks)

Answer: A — a) £377, b) £137.12

12 × £28.50 + £35 = £377. PAYG: 12 × £19.99 = £239.88. Difference £137.12.

Q12 (3 marks)

Answer: A — a) 70, b) 23

Sum 350 ÷ 5 = 70. Range = 81 − 58 = 23.

Q13 (3 marks)

Answer: A — a) 2km, b) 6cm

8 × 25000 = 200000cm = 2km. 150000 ÷ 25000 = 6cm.

Q14 (2 marks)

Answer: A — £30

500 × 0.03 = £15/year. × 2 = £30.

Q15 (3 marks)

Answer: A — a) 4, b) £59.96, c) 2L

8 ÷ 2.5 = 3.2 → 4 tins. 4 × £14.99 = £59.96. 10 − 8 = 2L.

Q16 (3 marks)

Answer: A — a) £22.40, b) £22.40

156.80 ÷ 7 = £22.40 each. The 6 others each owe back £22.40.

Q17 (3 marks)

Answer: A — a) 72m², b) £180

60 + 12 = 72m². 72 × £2.50 = £180.

Q18 (2 marks)

Answer: A — 3 hrs 45 min

0.75 × 60 = 45 minutes.

Q19 (3 marks)

Answer: B — Deal B (0.35p/g) — better

A: 360 ÷ 900 = 0.40p/g. B: 525 ÷ 1500 = 0.35p/g. B is cheaper per gram.

Q20 (3 marks)

Answer: A — a) 1hr 33min, b) Train 2, c) Yes (arrives 10:20)

09:30→11:03 = 1hr 33min. Earliest train after 09:00 is Train 2. Sheffield reached at 10:20, before 11:00.

Q21 (2 marks)

Answer: A — £517.50

450 × 0.15 = £67.50. 450 + 67.50 = £517.50.

Q22 (3 marks)

Answer: A — a) 18kg, b) 54kg

Cement = 1 part = 6kg. Sand = 3 parts = 18kg. Gravel = 5 parts = 30kg. Total = 54kg.

Q23 (3 marks)

Answer: A — a) 769km, b) £72.50

50 ÷ 6.5 × 100 ≈ 769km. 50 × £1.45 = £72.50.

Q24 (3 marks)

Answer: A — a) 2/5, b) 25%, c) 72°

24/60 = 2/5. 15/60 = 0.25 = 25%. 12/60 × 360° = 72°.

Q25 (3 marks)

Answer: A — a) £120, b) £2,280, c) £2,736

2400 × 0.05 = £120. 2400 − 120 = £2,280. £2,280 × 1.20 = £2,736.

Total: 62 marks | Pass mark: 37/62