Functional Skills Maths Level 1

Mock Test 4 — Answer Key & Mark Scheme

Q1 (2 marks)

Answer: B — 21

10% = 6, 30% = 18, 5% = 3. 35% = 21.

Q2 (2 marks)

Answer: A — 0.35

7 ÷ 20 = 0.35.

Q3 (2 marks)

Answer: B — 24 kg

Cement 1 part = 4kg. Sand 6 parts = 24kg.

Q4 (2 marks)

Answer: B — 5

Sorted: 1, 2, 4, 5, 7, 8, 9. Middle = 5.

Q5 (2 marks)

Answer: B — 1/2

Common denominator 6: 5/6 − 2/6 = 3/6 = 1/2.

Q6 (2 marks)

Answer: A — £6

25% of £8 = £2. £8 − £2 = £6.

Q7 (2 marks)

Answer: A — 1/2

Total 12. Not blue = 6. P = 6/12 = 1/2.

Q8 (2 marks)

Answer: B — 0.24

8 × 3 = 24. Two decimal places shift: 0.24.

Q9 (2 marks)

Answer: A — 1/2, 0.54, 55%, 3/5

Convert: 1/2 = 0.50, 0.54 = 0.54, 55% = 0.55, 3/5 = 0.60. Order is 1/2, 0.54, 55%, 3/5.

Q10 (2 marks)

Answer: A — 36

Area = base × height = 9 × 4 = 36.

Q11 (3 marks)

Answer: A — £30.01

Deposit = 20% × 449.99 = £90.00. Payments = 12 × £32.50 = £390. Total credit = £480. £480 − £449.99 = £30.01.

Q12 (3 marks)

Answer: B — £2,029.50

Taxable = £14,730. Tax = £2,946. Take-home = £24,354. ÷ 12 = £2,029.50.

Q13 (3 marks)

Answer: A — 4, mode 5

Sum 40 ÷ 10 = 4. The grade 5 appears 4 times (most common).

Q14 (3 marks)

Answer: A — 1.7 km

3.4 × 50,000 = 170,000 cm = 1.7 km.

Q15 (3 marks)

Answer: A — £43.20

1800 × 0.024 = £43.20.

Q16 (2 marks)

Answer: B — 1.5L

1L = £1.20/L. 1.5L = £1.10/L. 1.5L is better.

Q17 (3 marks)

Answer: A — 50

Area = ½(a+b) × h = ½ × 20 × 5 = 50.

Q18 (2 marks)

Answer: A — 1/4

½ × ½ = ¼.

Q19 (3 marks)

Answer: B — 11:35

Next bus after 10:40 departs 11:00, arrives Retail Park 11:35.

Q20 (3 marks)

Answer: B — 16%

Profit £29,600. 29,600 ÷ 185,000 × 100 = 16%.

Q21 (2 marks)

Answer: B — £7,500

Parts = 10. 1 part = £1,500. Largest (5 parts) = £7,500.

Q22 (3 marks)

Answer: A — £136

Worktop area 1.8 m² − cut-out 0.2 m² = 1.6 m². 1.6 × £85 = £136.

Q23 (2 marks)

Answer: B — 2.65

Sum of (rating × freq) = 53. Total people 20. 53 ÷ 20 = 2.65.

Q24 (3 marks)

Answer: A — £90.30

Tier 1: 100 × 28p = £28. Tier 2: 200 × 26.4p = £52.80. Tier 3: 40 × 23.75p = £9.50. Total = £90.30.

Q25 (2 marks)

Answer: A — £16

18 ÷ 1.125 = £16.

Total: 60 marks | Pass mark: 36/60