Functional Skills Maths Level 1

Mock Test 1

Total marks: 62

Pass mark: 37 out of 62

Time allowed: 2 hours

Section A: Non-calculator (30 minutes, 20 marks) | Section B: Calculator allowed (90 minutes, 42 marks)

You will need: pen, pencil, ruler, rubber, calculator (Section B only)

Name: _____ Date: _____

Section A — Non-Calculator

10 questions • 20 marks • 30 minutes

Question 1 (2 marks)

A jacket costs £85. In a sale, it is reduced by 20%. What is the sale price?

- A) £65
- B) £68
- C) £17
- D) £80

Question 2 (2 marks)

Write 0.35 as a fraction in its simplest form.

- A) 35/100
- B) 7/20
- C) 7/10
- D) 1/3

Question 3 (2 marks)

A recipe for 4 people uses 300g of flour. How much flour is needed for 10 people?

- A) 600g
- B) 750g
- C) 900g
- D) 1200g

Question 4 (2 marks)

Put in order smallest to largest: 0.7, 0.65, 0.08, 0.8

- A) 0.08, 0.65, 0.7, 0.8
- B) 0.08, 0.7, 0.65, 0.8
- C) 0.65, 0.7, 0.8, 0.08
- D) 0.8, 0.7, 0.65, 0.08

Question 5 (2 marks)

A car travels 180 miles in 3 hours. What is the average speed?

- A) 50 mph
- B) 60 mph
- C) 540 mph
- D) 45 mph

Question 6 (2 marks)

Simplify the ratio 24:36

- A) 4:6
- B) 2:3
- C) 6:9
- D) 12:18

Question 7 (2 marks)

What is 3/8 of 240?

- A) 80
- B) 90
- C) 30
- D) 120

Question 8 (2 marks)

A rectangle has perimeter 56cm and length 18cm. What is the width?

- A) 10 cm
- B) 20 cm
- C) 38 cm
- D) 14 cm

Question 9 (2 marks)

A bag has 3 red, 5 blue, 2 green balls. Probability of picking blue?

- A) 1/2
- B) 5/8
- C) 1/5
- D) 3/10

Question 10 (2 marks)

Temperature at midnight: −4°C. It rises by 11°C by midday. What is the midday temperature?

- A) 7°C
- B) 15°C
- C) −15°C
- D) 8°C

Section B — Calculator Allowed

15 questions • 42 marks • 90 minutes

Question 11 (3 marks)

Phone contract: £28.50/month + £35 setup. a) Total for 12 months? b) PAYG is £19.99/month with no setup. How much cheaper is PAYG over 12 months?

- A) a) £377, b) £137.12
- B) a) £377, b) £142.12
- C) a) £342, b) £102.12
- D) a) £377, b) £117.12

Question 12 (3 marks)

Test scores: Amy 72, Ben 58, Cara 81, Dan 65, Eve 74. a) Mean? b) Range?

- A) a) 70, b) 23
- B) a) 72, b) 23
- C) a) 70, b) 21
- D) a) 68, b) 23

Question 13 (3 marks)

Map scale 1:25,000. a) 8cm on map = ? km in real life. b) 1.5km in real life = ? cm on map.

- A) a) 2km, b) 6cm
- B) a) 2km, b) 60cm
- C) a) 200km, b) 6cm
- D) a) 20km, b) 6cm

Question 14 (2 marks)

3% simple interest per year on £500. How much interest after 2 years?

- A) £30
- B) £15
- C) £35
- D) £60

Question 15 (3 marks)

Paint is sold in 2.5L tins at £14.99 each. A room needs 8L of paint. a) How many tins are needed? b) Total cost? c) How much paint left over?

- A) a) 4, b) £59.96, c) 2L
- B) a) 3, b) £44.97, c) 0.5L
- C) a) 4, b) £59.96, c) 2.5L
- D) a) 3, b) £44.97, c) none

Question 16 (3 marks)

A bill of £156.80 is split equally between 7 people. a) How much does each person pay? b) If one person paid the whole bill on their card, how much does EACH of the other 6 owe them back?

- A) a) £22.40, b) £22.40
- B) a) £22.40, b) £26.13
- C) a) £22.11, b) £22.11
- D) a) £24.40, b) £24.40

Question 17 (3 marks)

An L-shaped garden is made of two rectangles: Rectangle 1 (10m × 6m) + Rectangle 2 (4m × 3m). a) Total area? b) Grass seed costs £2.50/m². Total cost?

- A) a) 72m², b) £180
- B) a) 72m², b) £162
- C) a) 60m², b) £150
- D) a) 78m², b) £195

Question 18 (2 marks)

Convert 3.75 hours into hours and minutes.

- A) 3 hrs 45 min
- B) 3 hrs 75 min
- C) 3 hrs 30 min
- D) 3 hrs 15 min

Question 19 (3 marks)

Deal A: 900g for £3.60. Deal B: 1.5kg for £5.25. Which is better value?

- A) Deal A (0.4p/g)
- B) Deal B (0.35p/g) — better
- C) Same value
- D) Deal A (0.35p/g)

Question 20 (3 marks)

Sara needs to travel from Leeds to Nottingham and reach Sheffield from Nottingham by 11:00.

Timetable — Leeds → Nottingham → Sheffield
Train 1: Leeds dep 08:45, Nottingham arr 10:18, Sheffield arr 09:35
Train 2: Leeds dep 09:30, Nottingham arr 11:03, Sheffield arr 10:20
Train 3: Leeds dep 10:15, Nottingham arr 11:48, Sheffield arr 11:05
a) Journey time Leeds → Nottingham on Train 2?
b) Which is the first train after 09:00?
c) Can Sara reach Sheffield from Leeds before 11:00?

- A) a) 1hr 33min, b) Train 2, c) Yes (arrives 10:20)
- B) a) 1hr 33min, b) Train 2, c) No
- C) a) 1hr 30min, b) Train 3, c) No
- D) a) 93min, b) Train 2, c) Yes

Question 21 (2 marks)

Increase £450 by 15%.

- A) £517.50
- B) £465
- C) £382.50
- D) £525

Question 22 (3 marks)

Concrete ratio sand:cement:gravel = 3:1:5. If 6kg of cement is used: a) Sand needed? b) Total weight of mixed concrete?

- A) a) 18kg, b) 54kg
- B) a) 18kg, b) 48kg
- C) a) 12kg, b) 54kg
- D) a) 18kg, b) 36kg

Question 23 (3 marks)

A car uses 6.5L per 100km. Tank holds 50L. a) Distance on a full tank? b) Fuel costs £1.45/L; cost to fill the tank?

- A) a) 769km, b) £72.50
- B) a) 325km, b) £72.50
- C) a) 769km, b) £94.25
- D) a) 650km, b) £72.50

Question 24 (3 marks)

Survey of 60 people. Football 24, Rugby 12, Tennis 9, Swimming 15. a) Football as a simplest fraction? b) Swimming as a %? c) Rugby's angle in a pie chart?

- A) a) 2/5, b) 25%, c) 72°
- B) a) 2/5, b) 15%, c) 72°
- C) a) 24/60, b) 25%, c) 60°
- D) a) 2/5, b) 25%, c) 60°

Question 25 (3 marks)

A builder quotes £2,400 with a 5% cash discount. a) Discount amount? b) Cash price? c) Add 20% VAT to the cash price; what is the final price?

- A) a) £120, b) £2,280, c) £2,736
- B) a) £120, b) £2,280, c) £2,400
- C) a) £240, b) £2,160, c) £2,592
- D) a) £120, b) £2,280, c) £2,856