Functional Skills Maths Level 1

Mock Test 5

Total marks: 60

Pass mark: 36 out of 60

Time allowed: 2 hours

Section A: Non-calculator (20 marks) | Section B: Calculator (40 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)

12.5% of 160?

- A) 20
- B) 16
- C) 24
- D) 18

Question 2 (2 marks)

Write 0.125 as a fraction in its simplest form.

- A) 1/8
- B) 1/4
- C) 125/1000
- D) 1/5

Question 3 (2 marks)

32 students in the ratio boys:girls = 3:5. Number of girls?

- A) 12
- B) 20
- C) 15
- D) 24

Question 4 (2 marks)

Mode of 6, 8, 4, 7, 8, 3, 8, 6?

- A) 6
- B) 8
- C) 7
- D) 6.25

Question 5 (2 marks)

3/4 × 2/3?

- A) 1/2
- B) 3/8
- C) 9/12
- D) 2/9

Question 6 (2 marks)

£320 + 20% VAT?

- A) £384
- B) £352
- C) £400
- D) £368

Question 7 (2 marks)

5 red and 3 green balls. Probability of picking 2 reds (no replacement)?

- A) 5/14
- B) 25/56
- C) 15/56
- D) 5/8

Question 8 (2 marks)

15.6 ÷ 1.2?

- A) 12
- B) 13
- C) 1.3
- D) 130

Question 9 (2 marks)

Which is closest to 1/3?

- A) 30%
- B) 0.35
- C) 33%
- D) 3/10

Question 10 (2 marks)

Circle radius 7. Area? (π = 3.14)

- A) 153.86
- B) 43.96
- C) 21.98
- D) 307.72

Section B — Calculator Allowed

15 questions • 40 marks • 90 minutes

Question 11 (3 marks)

Two electricity tariffs for 450 units. Tariff A: 26p/unit + £7.50/month standing charge. Tariff B: 26p/unit + no standing charge. Which is cheaper and by how much?

- A) B saves £7.50
- B) A saves £7.50
- C) B saves £13.50
- D) Same

Question 12 (3 marks)

A builder charges £4,800 for a job. 40% covers materials. The labour is split equally between 2 workers. How much does each worker get?

- A) £1,440
- B) £1,200
- C) £960

■ D) £2,400

Question 13 (3 marks)

Mid-week temperatures (°C): Mon −4, Tue −2, Wed −1, Thu 0, Fri 2, Sat 1, Sun 3. a) Mean (2dp)? b) Range?

- A) −0.14°C, range 7
- B) 0°C, range 7
- C) −0.14°C, range 5
- D) −1°C, range 7

Question 14 (3 marks)

Architect's model scale 1:200. Model is 15cm tall. Real height?

- A) 30 m
- B) 300 m
- C) 3 m
- D) 3,000 m

Question 15 (3 marks)

£800 invested at 1.5% per month compound interest for 2 months. Final value?

- A) £824.18
- B) £824
- C) £812
- D) £836

Question 16 (2 marks)

Petrol 142.9p/L vs 139.9p/L. Saving on 40L?

- A) £1.20
- B) £12
- C) £3
- D) £0.12

Question 17 (3 marks)

Semi-circle diameter 1.2m. Area? (π = 3.14, 2dp)

- A) 0.57 m²
- B) 1.13 m²
- C) 2.26 m²
- D) 0.28 m²

Question 18 (2 marks)

Probability of a prime number from 1–10?

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

Question 19 (3 marks)

You need to land in Paris by 3pm Paris time (UK is 1 hour behind). From the flight options, what's the latest UK departure, and the flying time?

Flights London → Paris (UK times):
09:30 dep, 2h 15m flight
10:30 dep, 2h 15m flight
12:00 dep, 1h 15m flight (express)
13:30 dep, 1h 15m flight (lands 15:45 Paris — too late)

- A) 12:00, 1h 15m
- B) 09:30, 1h 15m
- C) 12:00, 2h 15m
- D) 09:30, 2h 15m

Question 20 (3 marks)

House price went from £340,000 to £360,400. Percentage increase?

- A) 6%
- B) 5%
- C) 8%
- D) 4%

Question 21 (2 marks)

Squash and water mixed 1:4. Total 2.5L. How much squash?

- A) 500 ml
- B) 625 ml
- C) 400 ml
- D) 750 ml

Question 22 (3 marks)

Garden path 20m × 1.5m. Square slabs 50cm × 50cm cost £2.80 each. How many slabs and total cost?

- A) 120 slabs, £336
- B) 60 slabs, £168
- C) 30 slabs, £84
- D) 120 slabs, £360

Question 23 (2 marks)

From the grouped frequency table below, which class contains the median?

Class × Frequency:
0–10: 8
11–20: 10
21–30: 5
31–40: 2
Total: 25.

- A) 0–10
- B) 11–20
- C) 21–30

■ D) 31–40

Question 24 (3 marks)

Two mobile deals over 12 months. Deal A: £22/month, nothing upfront. Deal B: £20/month + £96 upfront. Which is cheaper, and by how much?

- A) A saves £72
- B) B saves £72
- C) A saves £96
- D) Same cost

Question 25 (2 marks)

Car is now worth £10,200 after losing 15% of its value. Original price?

- A) £12,000
- B) £11,735
- C) £11,500
- D) £12,500