



GCSE Foundation 04

Number



63 minutes



60 marks

Decimals

M1. 3×27 or 81(p) or (£)0.81

M1

their (£)0.81 + 5.99 + 1.80 (= 8.6(0))

Allow mixed units

eg 81(p) + (£)5.99 + (£)1.80

M1

10 – their 8.6(0)

M1

1.40

Strand (i)

Correct notation

Do not accept 1.4

Q1

[4]

M2. 6×85 or 510 or 6×0.85 or 5.1(0)

States that saving is equal to two tins.

Seen or implied.

B1

4×85 or 340 or 4×0.85 or 3.4(0)

2×85 or 170 or 2×0.85 or

1.7 if it is their final calculation.

B1

1.70

Strand (i)

Do not accept 1.7

Q1

[3]

M3. 60×2.5 (= 150)

M1

25×5 (+) 20×4 or 205

M1

their 150 + 100 – their 205

oe

M1

45

A1

their $45 \div 15$

Dependent on 3rd M1

M1dep

3

A1 ft

Alternative method

5 – 2.5 and 4 – 2.5 or 2.5 and 1.5

M1

25 × their 2.5 (+) 20 × their 1.5, or 92.5

M1

100 – their 92.5

oe

M1

7.5

A1

Their $7.5 \div 15$ or $0.5 (+ 2.5)$

Dependent on 3rd M1

M1dep

3

A1ft

[6]

M4. (a) 2.4×3.8

M1

9.12 or 9.1

A1

(b) $10 \times 14 (= 140)$ or $14 \div 12.5 (= 1.12)$

1.5 left over per load or $10 \times 12.5 (= 125)$ oe

M1

their $140 \div 12.5$ or their 1.12×10 or 11.2

11.2 implies M2

15 tonnes left over (140 implied)

or $10 + 1$

or $11 \times 12.5 = 137.5$ and 140 seen

(2.5 tonnes left over)

M1 dep

11

ft only if 2nd method mark not awarded

SC1 for rounding down if no method marks have been awarded

A1 ft

[5]

M5. (a) $120 \div 8$

M1

15

A1

(b) $8 + 12$ or 20 seen

Any one pair from

16, 24, (40)

24, 36 (60)

32, 48, (80)

40, 60 (100)

M1

$120 \div$ their 20

48, 72 (120)

M1

6

A1

(c) 6000 (g) seen

1000 grams = 1 kg seen or implied 0.12(0) seen

B1

their $6000 \div 120$

$6 \div$ their 0.12(0)

$6 \div 120 \times 1000$ scores B1 M1

M1

50

SC1 for answer digit 5, eg 5 or 500 if no working shown

A1 ft

(d) $120 \div 1.99$ **and** $100 \div 1.59$ oe

*$1.99 \div 120$ **and** $1.59 \div 100$ oe*

Must be a consistent pair

M1

60.(3...) **and** 62.(8...)

*0.016... **and** 0.015...*

A1

Choose 100 (grams)

Use of a consistent pair and correct choice for their answer

Unsupported 100 chosen scores M0A0Q0

Strand (iii)

dep on M1 scored only

Q1 ft

Alternative method

5×1.99 and 6×1.59

Comparing cost of 600 g

M1

9.95 and 9.54

A1

Choose 100 (grams)

Use of a consistent common multiple or factor of 100 and 120 and correct choice for their answer

Unsupported 100 chosen scores M0A0Q0

Strand (iii)

dep on M1 scored only

Q1 ft

[11]

M6. $5647 - 5345$ or 302

M1

200×24 or 4800 or $48(.00)$

M1

their $(302 - 200) \times 15$ or 1530 or $15.3(0)$
oe

M1

6330 or $63.3(0)$

A1

their 63.30

Strand (i)

Correct money notation in £

Do not accept 63.3

Q1

[5]

M7. (a) $(3), (5), (7), 9, 11$
 $(5), 7, 9, 11, 13$
 $7, 9, 11, 13, 15$
 $9, 11, 13, 15, 17$
 -1 e e o o

B2

(b) $\frac{3}{20}$
oe

B1

(c) $P(13) = \frac{3}{20}$ implies 15 winners in 100 plays

B1

(Chocolate costs) £7.50

B1

(Takings) 100×20 (= £20)

B1

(Profit) £20 – £7.50 (= £12.50)

B1

Award partial marks for stages shown

[7]

M8. (a) 0.308, 0.35, 0.4

B1

(b) 15.29

B1

(c) (i) 0.08

$$\frac{2}{25}$$

B1

(c) (ii) 12.5

B1

(d) Square any number between 0 and 1 inclusive and show it
Square any number greater than 1 and show it B1
(number in correct range)² but not evaluated
or evaluated incorrectly B1

[5]

M9.	(a)	9.16(...)		
		9.2		
			B1	
	(b)	74.1		
		74.09, 74.088, 74.08, 74		
			B1	
	(c)	374 ÷ 189		
			M1	
		£ 1.98		
		Accept 1.97; and £2 with working		
			A1	
				[4]

M10.	(a)	1.4 × 95 (= 133 pence)		
			M1	
		193 – (their 133) (= 60 pence)		
			DM1	
		(their 60) ÷ 0.8		
			M1	
		75 (pence)		
		£0.75		
			A1	
	(b)	4.50/22.50 × 100		
			M1	
		20(%)		
			A1	
				[6]

M11.	(a)	189 720		
			B1	
	(b)	3720		
			B1	
	(c)	37 944		
			B1	
				[3]

