M1.

Alternative method 1

£2 £2, 20p, 20p, 20p or £2, £2, 50p, 5p, 5p or £2, £1, £1, 50p, 10p	M1
£1, £1, 50p, 10p, 10p or £2, 20p, 20p, 20p, 10p or £2, 50p, 10p, 5p, 5p	M1
£2, £2, 20p, 20p, 20p, 10p	M1
£4.70 Correct money notation	A1
Alternative method 2	
4.60 – 2.70 or 1.90 oe	M1
£2 and 10p identified	M1
£4.60 + 10p or £2.70 + £2	

Allow mixed units

M1

		Correct money notation	A1	[4]
M2.	(a)	$1000 \div 42 \text{ or } 23.8() \text{ or } 23\frac{17}{21}$		
		or $\frac{500}{21}$	M1	
		23	A1	
	(b)	34 ft their answer to (a)	B1ft	[3]

M3.

7500 – 1875 or 5625	М1
their 5625 ÷ 36	IVI I
156.25	M1
	A1

[3]

M4.

Alternative method 1 300 × 0.19 or 57 oe

300 × 19 or 5700

MI

$$\frac{5}{100} \times \text{their 57 or 2.85}$$
or 1.05 seen

 $e^{\frac{5}{100}} \times \text{their 5700 or 285}}_{or 1.05 seen}$

Midep

their 57 + their 2.85

or their 570 + their 285

or their 570 + their 285

or their 5700 × 1.05 or 5985

Midep

59.85

Al

Atternative method 2

 $\frac{5}{100} \times 0.19$

or 0.095

or 1.05 seen

 $e^{\frac{5}{100} \times 19}$

or 0.095

or 1.05 seen

Mi

their 0.0095 + 0.19

or 0.055

or 1.05 seen

Mi

their 0.0095 + 0.19

or 0.1995

 $e^{\frac{5}{100} \times 19}$

or 1.05 × 0.19

or 0.1995

 $e^{\frac{5}{100} \times 19}$

or 1.05 × 0.19

or 1.05 × 19

or 1.05 × 19

or 1.05 × 300

their 19.95 × 300 or 5985

or 1.05 × 19 × 3

Midep

	M1dep
59.85	A 1
	AI
Alternative method 3 $\frac{5}{100} \times 300$	
or 15	
or 1.05 seen	
Oe	M1
their 15 + 300	
or 1.05 × 300	
or 315	
oe	M1dep
their 0.19 \times their 315	-
19 × their 315 or 5985	Miller
50.0F	wiidep
59.85	A1
Additional Guidance Pick out any correct step, e.g.	
300 ÷ 19 × 1.05	
	M1M1M0A0
$300 \times 0.5 \times 0.19$	M1M0M0A0
Beware, 10% of 19 = 1.90, 5% of 19 = 0.95, 1.90 + 0.95 = 2.85 (Alt 2)	M1M0M0A0
If a choice of methods is seen, mark the best	

[4]

(b)	1.5 seen	or implied		
	or 14 seen	oe	B1	
	28 × 1.5 or 28 + 14	Attempt to multiply speed by time eg 28 × 1.3 or 36.4 or 90 × 28 or 2520 or 130 × 28 or 3640	M1	
	42		A1	[4]
M6. (a)	Kilogram(s),	Tonne(s), Ton(s) or Stone(s) Accept T, kg Ignore any numerical estimate alongside correct unit eg accept 2 tonnes	B1	
(b)	Centimetre	e(s), millimetre(s) or inch(es) Accept cm, mm or in Ignore any numerical estimate alongside correct unit eg accept 15 mm	B1	[2]

M7.(a) 400 ÷ 2 or 400 – 200 or 200

or 400 ÷ 4 or 400 - 200 - 100 or 400 - 300 or 100 or 400 ÷ 8 or 400 - 200 - 100 - 50 or 400 - 350 oe One correct step Working may be on diagram

50

A1

M1

Additional Guidance

400 - 100 - 100 - 100 = 100	is M0 A0
100 as final answer with no working shown	is M0 A0

(b) 400 × 2 × 2 or 400 × 4 or 800 × 2
 or 400 × 4
 or 1600
 or 0.4

oe

M1

1.6

SC1 for a correct conversion for their 1600

A1

Additional Guidance

SC1
5

1000 ml =	1 I with 1 on answer line	is M1 A0		
1 I = 1000	ml alone	is M0 A0		[4]
M8. 2.85 × 0.72 × 0.9	oe 285 × 72 × 90		M1	
1.8(468)	1 846 800		A1	
M³	ст ³		B1	
Additional Gui	dance			
Accept any rour eg 1.85 or 185	nding to 2 sf or more without working seen 50 00	,		[3]
M9. 5 miles = 8 km se	en or implied oe		B1	
$95 \times \text{their} \frac{5}{8}$	8			

 $60 \times their \frac{5}{5}$

M1

59.() and yes		
	96 and yes	
	A	1
Alternative Met	hod 1	
95×5 or 475		
or 95 ÷ 8 or 11.	875	
	60 × 8 or 480	
	or 60 ÷ 5 or 12	
	В	1
$95 \times 5 \div 8$		
90 × 0 ÷ 0	60 × 8 ÷ 5	
	M	1
59.() and yes		
	96 and yes At	1
Alternative Met	hod 2	
95×5 or 475		
or 60 × 8 or 48	0	
	95÷8 or 11.875	
	or 60 ÷ 5 or 12	1
	D	1
95×5 or 475		
and 60 × 8 or 4	80	
	95÷8 or 11.875	
	and 60 ÷ 5 or 12	4
	M	1

475 and 480 and yes *11.875 and 12 and yes*

A1

B1

A1

[3]

Atternative Method 3

$$95 \div 60 \text{ or } 1.5...$$

 $or 8 \div 5 \text{ or } 1.6$
 $60 \div 95 \text{ or } 0.63...$
 $or 5 \div 8 \text{ or } 0.62(5)$
B1
 $95 \div 60 \text{ or } 1.5...$
and $8 \div 5 \text{ or } 1.6$
 $60 \div 95 \text{ or } 0.63...$
and $5 \div 8 \text{ or } 0.62(5)$
M1
1.5... and 1.6 and yes
 $0.63...$ and 0.625 and yes
At
Additional Guidance
On alternative method 2 or 3, 11.875 can be $11.8(...)$ or 11.9
Throughout all methods students can use 2.5 and 4 in place of 5 and 8 for the first
B1 (or 1.25 and 2, 10 and 16, etc - might be on the scale)
(i) 1014
Accept 0945 (from Newcastle)
B1
(ii) 34
B1

12 + 10 + 7 or 29 (b)

M10.

M1

B1

B1

61 - their 2	29 (= 32)	M1
Attempt to	build up to 32 Adding 12's,10's,7's with at least one total between 26 and	
	36	M1
2, 3, 1	Allow Adults £12, £12, Child £10, £10, £10, Senior £7	
	SC3 for £24, £30, £7	A1
Alternativ	e of 12, 10 or 7 seen	
		M1
Any comb	ination of multiples of 12, 10 and 7	M1
Combinati	on of multiples of 12, 10 or 7 with a total between 55 and 65	M1

2, 3, 1

Allow Adults £12, £12, Child £10, £10, £10, Senior £7	
SC3 for £24, £30, £7	

[6]

A1

B1

M1

M11.(a) 20(p)

Accept £ 0.20(p)

(b) 10 × (25 - their 20)

or 10 × 25 - 10 × their 20 oe ft their 20 from (a) if < 25

50(p)

Accept £ 0.50(p)

A1 ft	
	[3]

M12. (a)	2 × 2(.00) +	+1.25 oe	M1	
	5.25		A1	
(b)	10 – their	5.25	M1	
	4.75	ft their 5.25	A1 ft	[4]
M13. 80 + 45 + 70 200 - (80 + 45 + 70)				
0.8	8 + 0.45 + 0.7	2 -(0.8 + 0.45 + 0.7)	M1	
19	5	5		
Ye	es and 195 (< 200)			
1.9	95	0.05		
Ye	s and 1.95 (<	2)	A1	

Yes and 5 (left over) or Yes and 0.05 Strand (iii)

M1 awarded and correct decision for their total SC1 for any correct conversion eg 2 metres = 200 cm or 80 cm = 0.8 metres or $45 \, cm = 0.45 \, metres$ or 70 cm = 0.7 metres Q1 ft [3] **M14.**(a) South Accept S **B1** Plymouth (b) **B1** Alderney (c) **B1** [3] M15.2.2 pounds = 1000 grams seen or implied May be implied from working 1 ÷ 2.2 (= 0.45 kg) (= 1 pound) **M1** $(1 \text{ pound} =) 1000 \div 2.2$ (= 454 ... grams) (1 gram =) 2.2 ÷ 1000 (= 0.0022 pound) or 1 ÷ 2.2 × 1000

1 ÷ 2.2 × 0.5 (= 0.227 ... grams)

[454, 455] or 450

[0.227, 0.2275] or 0.225 or 0.230

M1

M1

A1

M1

M1

 $\begin{pmatrix} \frac{1}{2} \\ pound = \end{pmatrix} 1000 \div 2.2 \div 2 \\ 100 \ grams = 2.2 \div 1000 \times 100 \\ (= 0.22 \ pounds) \\ \\ (= 227.2 \ ... \ grams) \\ or 200 \ grams = 2.2 \div 1000 \times 200 (= 0.44 \ pounds) \\ \\ [227, 227.5] \ or 225 \ or 230 \\ or 250 \ grams = 2.2 \div 1000 \times 250 \\ (= 0.55 \ pounds) \\ or 500 \ grams = 2.2 \div 1000 \times 500 \\ (= 1.1 \ pounds) \\ \end{cases}$

[227, 227.5] or 225 or 230 and 250 g stated 0.55 (pounds) and 250 g stated 0.44 (pounds) and 250 g stated SC3 for e.g. 0.227 and 250 g stated

Alternative method

2 pounds = 1000 grams seen or implied
May be implied from working
$$1 \div 2 \ (= 0.5 \text{ kg}) \ (= 1 \text{ pound})$$

 $\frac{1}{2} \text{ pound =) } 1000 \div 2 \div 2$ (= 250 grams) $100 \text{ grams = } 2 \div 1000 \times 100 \text{ (= } 0.2 \text{ pounds)}$ or 200 grams = 2 ÷ 1000 × 200 (= 0.4 pounds)

M1

A1

250 g stated

SC3 for e.g. 0.25 and 250 g stated

[4]