

**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**

£4.70

*Correct money notation*

A1

[4]

**M2.**

(a)  $1000 \div 42$  or  $23.8(\dots)$  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

their  $5625 \div 36$

156.25

M1

M1

A1

[3]

**M4.**

**Alternative method 1**

$300 \times 0.19$  or 57

*oe*

$300 \times 19$  or 5700

M1

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

or 1.05 seen

oe

$$\frac{5}{100} \times \text{their } 5700 \text{ or } 285$$

or 1.05 seen

M1dep

their 57 + their 2.85

or their 57 × 1.05

*their 5700 + their 285*

*or their 5700 × 1.05 or 5985*

M1dep

59.85

A1

**Alternative method 2**

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

or 0.0095

or 1.05 seen

oe

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

or 0.95

or 1.05 seen

M1

their 0.0095 + 0.19

or 1.05 × 0.19

or 0.1995

oe

*their 0.95 + 19*

*or 1.05 × 19*

*or 19.95*

M1dep

their 0.1995 × 300

*their 19.95 × 300 or 5985*

*or 1.05 × 19 × 3*

M1dep

59.85

A1

**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 × their 315

*19 × their 315 or 5985*

M1dep

59.85

A1

**Additional Guidance**

Pick out any correct step, e.g.

$$300 \div 19 \times 1.05$$

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**

$28 \times 1.5$

or  $28 + 14$

*Attempt to multiply speed by time*

*eg  $28 \times 1.3$  or  $36.4$*

*or  $90 \times 28$  or  $2520$*

*or  $130 \times 28$  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(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)**  $400 \div 2$  or  $400 - 200$  or 200

or  $400 \div 4$  or  $400 - 200 - 100$

or  $400 - 300$  or  $100$

or  $400 \div 8$

or  $400 - 200 - 100 - 50$

or  $400 - 350$

*oe*

*One correct step*

*Working may be on diagram*

**M1**

50

**A1**

**Additional Guidance**

$400 - 100 - 100 - 100 = 100$

is M0 A0

100 as final answer with no working shown

is M0 A0

(b)  $400 \times 2 \times 2$  or  $400 \times 4$  or  $800 \times 2$

or  $400 \times 4$

or 1600

or 0.4

*oe*

**M1**

1.6

*SC1 for a correct conversion for their 1600*

**A1**

**Additional Guidance**

1200 ml = 1.2 l

is SC1

1000 ml = 1 l with 1 on answer line

is M1 A0

1 l = 1000 ml alone

is M0 A0

[4]

**M8.**  $2.85 \times 0.72 \times 0.9$

*oe*  
 $285 \times 72 \times 90$

**M1**

1.8(468)

$1\ 846\ 800$

**A1**

$m^3$

$cm^3$

**B1**

**Additional Guidance**

Accept any rounding to 2 sf or more without working seen,  
 eg 1.85 or 1 850 00

[3]

**M9.** 5 miles = 8 km seen or implied

*oe*

**B1**

95 × their  $\frac{5}{8}$

60 × their  $\frac{8}{5}$

**M1**

59.(...) and yes

*96 and yes*

**A1**

**Alternative Method 1**

$95 \times 5$  or 475

or  $95 \div 8$  or 11.875

*$60 \times 8$  or 480*

*or  $60 \div 5$  or 12*

**B1**

$95 \times 5 \div 8$

*$60 \times 8 \div 5$*

**M1**

59.(...) and yes

*96 and yes*

**A1**

**Alternative Method 2**

$95 \times 5$  or 475

or  $60 \times 8$  or 480

*$95 \div 8$  or 11.875*

*or  $60 \div 5$  or 12*

**B1**

$95 \times 5$  or 475

and  $60 \times 8$  or 480

*$95 \div 8$  or 11.875*

*and  $60 \div 5$  or 12*

**M1**

475 and 480 and yes

*11.875 and 12 and yes*



A1

**Alternative Method 3**

95 ÷ 60 or 1.5...

or 8 ÷ 5 or 1.6

*60 ÷ 95 or 0.63...  
or 5 ÷ 8 or 0.62(5)*

B1

95 ÷ 60 or 1.5...

and 8 ÷ 5 or 1.6

*60 ÷ 95 or 0.63...  
and 5 ÷ 8 or 0.62(5)*

M1

1.5... and 1.6 and yes

*0.63... and 0.625 and yes*

A1

**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)

[3]

**M10.**

(a) (i) 1014

*Accept 0945 (from Newcastle)*

B1

(ii) 34

B1

(b) 12 + 10 + 7 or 29

M1

61 - their 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

**Alternative**

Multiples of 12, 10 or 7 seen

M1

Any combination of multiples of 12, 10 and 7

M1

Combination 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*

A1

[6]

**M11.(a)** 20(p)

*Accept £ 0.20(p)*

B1

(b)  $10 \times (25 - \text{their } 20)$

or  $10 \times 25 - 10 \times \text{their } 20$  oe

*ft their 20 from (a) if < 25*

M1

50(p)

*Accept £ 0.50(p)*

A1 ft [3]

**M12.**(a)  $2 \times 2(.00) + 1.25$  oe

M1

5.25

A1

(b)  $10 -$  their 5.25

M1

4.75

*ft their 5.25*

A1 ft [4]

**M13.** $80 + 45 + 70$

$200 - (80 + 45 + 70)$

$0.8 + 0.45 + 0.7$

$2 - (0.8 + 0.45 + 0.7)$

M1

195

5

Yes and 195 (< 200)

1.95

0.05

Yes 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**

(b) Plymouth

**B1**

(c) Alderney

**B1**

**[3]**

**M15.2.2** pounds = 1000 grams seen or implied

*May be implied from working  
 $1 \div 2.2 (= 0.45 \text{ kg}) (= 1 \text{ pound})$*

**M1**

(1 pound =)  $1000 \div 2.2$   
(= 454 ... grams)

*(1 gram =)  $2.2 \div 1000 (= 0.0022 \text{ pound})$*

or  $1 \div 2.2 \times 1000$

*$1 \div 2.2 \times 0.5 (= 0.227 \dots \text{ grams})$*

[454, 455] or 450

*[0.227, 0.2275] or 0.225 or 0.230*

**M1**

$$\left(\frac{1}{2} \text{ pound} \Rightarrow\right) 1000 \div 2.2 \div 2$$

$$100 \text{ grams} = 2.2 \div 1000 \times 100$$

$$(\text{=} 0.22 \text{ pounds})$$

$$(\text{=} 227.2 \dots \text{ grams})$$

$$\text{or } 200 \text{ grams} = 2.2 \div 1000 \times 200 (\text{=} 0.44 \text{ pounds})$$

$$[227, 227.5] \text{ or } 225 \text{ or } 230$$

$$\text{or } 250 \text{ grams} = 2.2 \div 1000 \times 250$$

$$(\text{=} 0.55 \text{ pounds})$$

$$\text{or } 500 \text{ grams} = 2.2 \div 1000 \times 500$$

$$(\text{=} 1.1 \text{ pounds})$$

M1

$$[227, 227.5] \text{ or } 225 \text{ or } 230 \text{ and } 250 \text{ g stated}$$

$$0.55 \text{ (pounds) and } 250 \text{ g stated}$$

$$0.44 \text{ (pounds) and } 250 \text{ g stated SC3}$$

$$\text{for e.g. } 0.227 \text{ and } 250 \text{ g stated}$$

A1

### Alternative method

$$2 \text{ pounds} = 1000 \text{ grams seen or implied}$$

$$\text{May be implied from working}$$

$$1 \div 2 (\text{=} 0.5 \text{ kg}) (\text{=} 1 \text{ pound})$$

M1

$$(1 \text{ pound} \Rightarrow) 1000 \div 2$$

$$(\text{=} 500 \text{ grams})$$

$$(1 \text{ gram} \Rightarrow) 2 \div 1000 (\text{=} 0.002 \text{ pound})$$

$$\text{or } 1 \div 2 \times 1000$$

$$(\text{=} 500 \text{ grams})$$

$$1 \div 2 \times 0.5 (\text{=} 0.25 \text{ grams})$$

M1

$$\left(\frac{1}{2} \text{ pound} \Rightarrow\right) 1000 \div 2 \div 2$$

$$(\text{=} 250 \text{ grams})$$

$$100 \text{ grams} = 2 \div 1000 \times 100 (\text{=} 0.2 \text{ pounds})$$

$$\text{or } 200 \text{ grams} = 2 \div 1000 \times 200 (\text{=} 0.4 \text{ pounds})$$

*or 250 grams =  $2 \div 1000 \times 250$  (= 0.5 pounds)*

*or 500 grams =  $2 \div 1000 \times 500$  (= 1 pound)*

**M1**

250 g stated

*SC3 for e.g. 0.25 and 250 g stated*

**A1**

**[4]**