Mark schemes

Q1	180 3000	or <u>18</u> 300			
	or 1k	g = 1000g s	seen or implied oe fraction eg 3000 or 0.18 seen B1		
	$\frac{3}{50}$		B1ft		[2]
Q2	(a)	С	Accept 80	B1	
	(b)	В	Accept 22	B1	
	(0)	C	Accept 30	B1	[3]

Q3.

Alternative method 1

Three whole numbers that each are less than 80 and have units digit 4 or	
States that each number must have units digit 4	M1
82	A1
Alternative method 2	
Correctly evaluated trial for three whole numbers, none of which are a multiple of 10, and that, when rounded, total 70	
eg 33 + 33 + 13 = 79	M1

82

Additional Guidance

A1

39 + 33 + 13 = 85 (40 + 30 + 10 = 80)

Beware 82 from incorrect values, e.g. 39 + 24 + 19 = 82

Ignore incorrectly evaluated trials that do not solely lead to the answer

Q4.

(a) 680

(b) 1.6(00) oe eg $1\frac{3}{5}$

[2]

Q5.

(a)

(b)

120 ÷ 8 (or 120 ÷ 1.6 or 120 × 0.6	× 5) (= 15) 25	
	oe or Complete build-up method (allow one arithmetic slip), eg $8 \rightarrow 5$, $16 \rightarrow 10$, $24 \rightarrow 15$, $120 \rightarrow 75$ Allow part build-up method if clear, eg Build-up to $40 \rightarrow 25$ then 25×3	
		M1
75		A1
48 × 0 22)	
10 0.22		M1
10.56	Accept 10.6 if correct working seen	A1
Allow the 48 ÷ 4.5 48 ÷ 4.55	ese alternatives	
[10.6, 10.	7]	M1
[10.5, 10.	55]	A1
	1	
15 min o i	4 hour or 0.25 hours	
	B1 15 or $\frac{1}{4}$ or 0.25	

(c)

M0A0

B1

B1

[2]

B2

[2]

Q6.

100 grams	B1	
2 litres	B 1	
5 metres	B1	[3]
		[~]

Q7.

[4.6, 5.0]		
	B1	3 (× 1.6)
	0 r	

or their 3 × 1.6 evaluated

Q8.

capacity

B1 [1]

Q9.

(a)	Kilograms			
		Allow kg	B1	
(b)	Grams			
		Allow g	B1	
(c)	Litres			
		Allow I	B1	
				[3]
Q10.				
cm ³ a	and cubic m	etres		

B1	
	[1]

Q11. Centimetres **B1**

	Litres	B1	
	Grams	B1	[3]
Q1	12. Alternative method 1		
	4.5 litres = 1 gallon seen or implied		
	27 ÷ their 4.5 or 6	B1 M1	
	their 6 × 36 or 216	M1dep	
	216 and yes	A1	
	Alternative method 2		
	4.5 litres = 1 gallon seen or implied	B1	
	36 ÷ their 4.5 or 8 or 210 ÷ 27 or 7.7()	M1	
	their 8 × 27 or 216 or 36 ÷ their 4.5 or 8 and 210 ÷ 27 or 7.7()	M1dep	
	216 and yes or 7.7() and 8 and yes	A1	
	Alternative method 3		
	4.5 litres = 1 gallon seen or implied	B1	
	210 ÷ 36 or 5.83	M1	
	their 5.83 × their 4.5 or 26.25	M1dep	
	26.25 and yes	A1	
	Alternative method 4		
	4.5 litres = 1 gallon seen or implied	B1	

27 ÷ their 4.5 or 6	
or 210 ÷ 36 or 5.83	M1
27 ÷ their 4.5 or 6	
and 210 ÷ 36 or 5.83	Mldep
6 and 5.83 and yes	A1
Additional Guidance	

Must clearly state their conversion

[4]