

Q1. (2017)

1	metres	B1	
---	--------	----	--

Q2. (2019)

5	Alternative method 1		
	$24 \div 4 \times 3$ or 18	M1	oe
	their 18×60 or 1080	M1dep	oe 1080 implies M2
	1080 and $\frac{3}{4}$ (of a day)	A1	
	Alternative method 2		
	24×60 or 1440	M1	oe
	their $1440 \div 4 \times 3$ or 1080	M1dep	oe 1080 implies M2
	1080 and $\frac{3}{4}$ (of a day)	A1	
	Alternative method 3		
	$24 \div 4 \times 3$ or 18	M1	oe
	$1000 \div 60$ or $16(.6\dots)$ or 16.7 or 17	M1	may be seen in either order (M marks not dependent) [16 h 36 m, 16 h 42 m] implies division 16 or 17 may be embedded
	$16(.6\dots)$ or 16.7 or 17 or [16 h 36 m, 16 h 42 m] and 18 and $\frac{3}{4}$ (of a day)	A1	16 or 17 may be embedded

5 cont	Alternative method 4		
	24×60 or 1440	M1	oe
	$1000 \div$ their 1440 ($\times 100$) or $\frac{25}{36}$ or 0.69... or 69(...)%	M1dep	oe $\frac{25}{36}$ or 0.69... or 69(...)% implies M2
	$\frac{25}{36}$ and $\frac{27}{36}$ and $\frac{3}{4}$ (of a day) or 0.69... and 0.75 and $\frac{3}{4}$ (of a day) or 69(...)% and 75% and $\frac{3}{4}$ (of a day)	A1	
	Additional Guidance		
	Ignore units for the M marks but they must be correct, if given, for the A mark		
	$\frac{3}{4}$ of 24 is insufficient method unless a correct method or 18 is seen		
	Once $1000 \div 60$ or 16 or 16.6... or 16.7 or 17 is seen in Alt method 3, ignore any incorrect conversion to hours and minutes. If the student only shows hours and minutes, they must be in the given range.		
	Do not accept $\frac{3}{4}$ (of a day) in equivalent form eg 1080 or 18		A0

Q3. (2020)

Q	Answer	Mark	Comments
18	Alternative method 1		
	14 × 0.8 or 11.2 or 1.5 × 2 ÷ 0.8 or 3.75	M1	oe implied by 8.2 or 5.4(6...) or 5.47 or 5.5
	their 11.2 – 2 × 1.5 or their 11.2 – 3 or 8.2 or (14 – their 3.75) × 0.8 or 8.2	M1dep	oe implied by 5.4(6...) or 5.47 or 5.5
	their 8.2 ÷ 1.5 or 5.4(6...) or 5.47 or 5.5 or 5 → 7.5 or 6 → 9 with M2 seen	M1dep	oe
	6 with 5.4(6...) or 5.47 or 5.5 seen or 6 with 5 → 7.5 and 6 → 9 and M2 seen	A1	
	Alternative method 2		
	14 × 0.8 or 11.2	M1	oe implied by 7.4(6...) or 7.47 or 7.5 (packs)
	their 11.2 ÷ 1.5 or 7.4(6...) or 7.47 or 7.5 (packs) or 7 → 10.5 or 8 → 12 with M1 seen	M1dep	oe $\frac{14 \times 0.8}{1.5}$ is M2
	their 7.4(6...) – 2 or 5.4(6...) or 5.47 or 5.5 or 7 – 2 or 8 – 2 with M2 seen	M1dep	oe
	6 with 7.4(6...) or 7.47 or 7.5 seen or 6 with 7 → 10.5 and 8 → 12 and M2 seen	A1	

18 cont	Alternative method 3 Working in weeks		
	1.5 ÷ 0.8 or 1.875	M1	oe implied by 7.4(6...) or 7.47 or 7.5 (packs)
	14 ÷ their 1.875 or 7.4(6...) or 7.47 or 7.5 (packs) or 7 → 13.1(25) or 8 → 15	M1dep	oe
	their 7.4(6...) – 2 or 5.4(6...) or 5.47 or 5.5 or 7 – 2 or 8 – 2 with M2 seen	M1dep	oe
	6 with 7.4(6...) or 7.47 or 7.5 seen or 6 with 7 → 13.1(25) and 8 → 15 seen	A1	
	Additional Guidance		
	Select the scheme that favours the student for the first 2 M marks even if not subsequently used		
	Alts 2 and 3 the 7.5 must be packs not 7.5 kg (from 5 × 1.5)		
	For the final mark of Alt 1, eg 5 → 7.5 and 0.7 (short) is sufficient evidence and there are equivalents for Alts 2 and 3		
	For the final mark of Alt 1, eg 6 → 9 and 0.8 (over) is sufficient evidence and there are equivalents for Alts 2 and 3		
	Accept repeated addition or subtraction of 1.5 if clear eg 1.5 + 1.5 + 1.5 + 1.5 + 1.5 = 7.5 implies 5 → 7.5		

Q4. (2022)

Q	Answer	Mark	Comments
6	Cost of 5 litres of cleaning fluid $2 \times 18 + 10$ or $36 + 10$ or 46 or $18 + 3 \times 10$ or $18 + 30$ or 48 or 5×10 or 50	M1	oe cost of 2×2 litres + 1×1 litre or cost of 1×2 litres + 3×1 litre or cost of 5×1 litre
	Cost of machine plus 5 litres of cleaning fluid $25 + 2 \times 18 + 10$ or $25 + 18 + 3 \times 10$ or 73 or $25 + 5 \times 10$ or 75	M1dep	oe
	71(.00p)	A1	SC1 70(.00p)
	Additional Guidance		
	Up to M2 may be awarded for correct work with no, or incorrect answer, even if this is seen amongst multiple attempts		
	Special case is for the correct total from using 2.5 bottles at £18		

Q5. (2022)

Q	Answer	Mark	Comments
8	7 (kg) 200 (g) + 650 or $7200 + 650$ or $7.2(00) + 0.65(0)$ or 7850 seen or 7.85(0) seen or 850 seen or 0.85(0) seen	M1	
	7 kilograms 850 grams	A1	SC2 7.85(0) kilograms 7850 grams
	Additional Guidance		
	850 may be seen embedded eg Answer 29.75 kilograms 850 grams		M1A0
	7 kg 850 g seen in working but different answer		M1A0
	7.2 + 650 with no other creditworthy work		M0A0

Q6. (2024)

Q	Answer	Mark	Comments
9	Alternative method 1		
	270 ÷ 3 or 90 or 270 × 50 or 13500 or 270 × 0.5(0) or 135	M1	oe
	270 ÷ 3 × 50 or 270 ÷ 3 × 0.5(0)	M1dep	oe
	45	A1	
	Alternative method 2		
	Correctly finds units and cost for at least 30 miles	M1	eg 30 miles = 10 units and 10 units cost (£)5
	Correct method for cost of 270 miles	M1dep	
	45	A1	
	Additional Guidance		
	45.00(p)		M1M1A1
	45.0		M1M1A0
	Accept 0.33(...) or 33.(...) % for $\frac{1}{3}$		
	Further work eg 45 ÷ 2		M1M1A0
	Embedded answer of 45 but not selected		M1M1A0