

Q1. (2019)

13	41, 43 and 47	B2	B1 at least two of 41, 43 and 47 with at most one other number
	Additional Guidance		

Q2. (2019)

14	Alternative method 1		
	3115 ÷ 6.23 or 500	M1	3115 × 0.028 or 87.22
	their 500 × 0.028	M1dep	their 87.22 ÷ 6.23
	14	A1	
	Alternative method 2		
	6.23 ÷ 0.028 or 222.5	M1	6.23 ÷ 3115 or 0.002 or $\frac{1}{500}$
	3115 ÷ their 222.5	M1dep	0.028 ÷ their 0.002 or 0.028 ÷ their $\frac{1}{500}$
	14	A1	
	Alternative method 3		
	0.028 ÷ 6.23 or 0.00449(...) or 0.0045 or $\frac{2}{445}$	M1	
	3115 × their 0.00449(...) or 3115 × 0.0045 or 3115 × their $\frac{2}{445}$	M1dep	
	14	A1	
	Additional Guidance		
	500 × 0.028 and 14 × 0.028		M1M1A0
	500 × 0.028 and 14 ³		M1M1A0
	500 × 0.028 ³		M1M0

Q3. (2020)

Q	Answer	Mark	Comments
10	1.8 × 1000 or 1800 or 1600 ÷ 1000 or 1.6 or $1\frac{3}{4} \times 1000$ or 1750 or 1.75	M1	
	Shortest distance 1600 (metres) $(1\frac{3}{4} \text{ kilometres})$ Longest distance 1.8 (kilometres) with no incorrect working	A1	any indication eg allow 1800 (metres) for 1.8 (kilometres)
	Additional Guidance		
	Award M1 work even if not subsequently used		
	Correct order with no incorrect working		M1A1
	Correct order with incorrect working can score up to M1 eg 0.16 1.75 1.8 eg 1600 17500 18000		M1A0 M0A0
	1.6 or 1.75 with order incorrect		M1A0
	1800 or 1750 with order incorrect		M1A0

Q4. (2021)

Q	Answer	Mark	Comments
9	72×28 or 2016 or 16×18 or 288	M1	oe
	$\frac{72 \times 28}{16 \times 18} = 7$ or 2016 and 288 and 7	A1	oe
	Additional Guidance		
	Ignore further work alongside a correct answer		

Q5. (2021)

Q	Answer	Mark	Comments
27	Alternative method 1		
	198×0.45 or 89.1	M1	
	their 89.1 $\div 6.25$	M1	their 89.1 must come from a division or multiplication using 198 and 0.45 only
	14.256 or 14.26 or 14.3	A1	SC1 556.875 or 556.88 or 556.9 or 70.4
	Alternative method 2		
	$198 \div 6.25$ or 31.68	M1	
	their 31.68 $\times 0.45$	M1	their 31.68 must come from a division or multiplication using 198 and 6.25 only
	14.256 or 14.26 or 14.3	A1	SC1 556.875 or 556.88 or 556.9 or 70.4
	Alternative method 3		
	$0.45 \div 6.25$ or 0.072	M1	
	$198 \times$ their 0.072	M1dep	
	14.256 or 14.26 or 14.3	A1	SC1 556.875 or 556.88 or 556.9 or 70.4
	Alternative method 4		
	$6.25 \div 0.45$ or $13.\dot{8}$ or $13.8(\dots)$ or 13.9	M1	
	$198 \div$ their $13.\dot{8}$	M1dep	
	14.256 or 14.26 or 14.3	A1	SC1 556.875 or 556.88 or 556.9 or 70.4

27 cont	Additional Guidance	
	$198 \times 0.45 \div 6.25$ oe	M1M1
	$198 \times 0.45 \times 6.25$ (which gives 556.875)	M1M0
	$198 \div 0.45 \div 6.25$ (which gives 70.4)	M0M1
	$198 \div 0.45 \times 6.25$ (which gives 2750)	M0M0
	Do not allow 6.25^2 for 6.25 eg $198 \div 6.25 \div 6.25$	M0
	Ignore rounding or truncation after correct answer seen	

Q6. (2024)

Q	Answer	Mark	Comments
27	Alternative method 1: population density of Town A		
	84 000 $\div$ (7 $\times$ 2.6) or [4615, 4616]	M2	oe M1 84 000 $\div$ 7 or 12 000 oe or 7 $\times$ 2.6 or 18.2 oe
	Town B and [4615, 4616]	A1	
	Alternative method 2: comparing one square mile of population		
	84 000 $\div$ 7 or 12 000	M1	oe
	4695 $\times$ 2.6 or 12 207	M1	oe
	Town B and 12 000 and 12 207	A1	
	Alternative method 3: comparing seven square miles of population		
	4695 $\times$ 2.6 $\times$ 7 or 85 449	M2	oe M1 4695 $\times$ 2.6 or 12 207 oe or 7 $\times$ 2.6 or 18.2 oe
	Town B and 85 449	A1	
	Alternative method 4: comparing areas with equal populations		
	7 $\times$ 2.6 or 18.2	M1	oe
	84 000 $\div$ 4695 or [17.89, 17.9] or 18	M1	oe
	Town B and 18.2 and [17.89, 17.9] or 18	A1	