

Q1. (2018)

5	14 000 × 0.2 or 14 000 ÷ 10 × 2 or (10% =) 1400 or (1% =) 140	M1	oe eg 14 000 ÷ 5 $\frac{20}{100} \times 14000$
	2800	A1	oe eg 2800.00
Additional Guidance			
	2800 followed by 14 000 – 2800 (implied by 11 200)		M1A0
	14 000 ÷ 10 = 4000 followed by 4000 × 2 = 6000 (fully correct method)		M1A0
	14 000 ÷ 10 = 4000 followed by 20% = 8000 (method not shown for 20% but it is correct for 2 × their 10%)		M1A0
	14 000 ÷ 10 = 4000 followed by 20% = 6000 (method not shown for 20%)		M0A0
	10% = 140, 140 × 2 = 280 (method not shown for 10%)		M0A0
	14 ÷ 5 or 2.8 (without place value adjustment)		M0A0

Q2. (2018)

19	33.3%	B1	
Additional Guidance			

Q3. (2019)

12	Alternative method 1		
	300 ÷ 10 or 30	M1	oe
	their 30 × 6.5 or their 30 × 6 + their 30 ÷ 2 or 300 – their 30 × 3.5 or 300 – (their 30 × 3 + their 30 ÷ 2)	M1dep	oe
	195	A1	SC2 105
	Alternative method 2		
	300 ÷ 100 or 3	M1	oe
	their 3 × 65 or 300 – their 3 × 35	M1dep	oe
	195	A1	SC2 105
	Alternative method 3		
	Correct method to work out any multiple of 5% of 300 up to 95%	M1	eg 50% = 300 ÷ 2
	Fully correct build-up method to work out 65% of 300	M1dep	eg 300 ÷ 2 + 3 × 300 ÷ 20 or 150 + 3 × 15 (no errors seen)
	195	A1	SC2 105
Alternative method 4			
65 ÷ 100 or 0.65 or 65 × 300 or 19 500	M1		
300 × $\frac{65}{100}$ or 300 × their 0.65 or their 19 500 ÷ 100	M1dep	oe	
195	A1	SC2 105	
Additional Guidance is on the following page			
12 cont	Additional Guidance		
	In Alt 3, either a correct method or a correct value must be seen for the first M1 Note that 300 × 50% is not allowed as a correct method		
	If Alt 3 is to be used, the percentage that is attempted must be stated eg 20% = 300 ÷ 5		
	Do not ignore further working for the A mark eg 300 – 195		M1M1A0

Q4. (2019)

13	125	B1	
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Q5. (2020)

Q	Answer	Mark	Comments
16(c)	$\frac{17+13}{150}$ or $\frac{30}{150}$ or $30 \div 150$ or 0.2	M1	oe
	20	A1	SC1 for 80 (not car) or 49 or better (Bus) or 31 or better (Walk)
	Additional Guidance		
	Build up method: 150 = 100%, 15 = 10%, 30 = 20%, answer 20% 150 = 100%, 15 = 10%, 15 $\times$ 2 = 10% $\times$ 2, 30 = 25%, answer 25% 150 = 100%, 15 = 10%, 30 = 15%, answer 15%		M1A1 M1A0 M0A0
	$\frac{30}{150}$ seen, then 30% of 150 attempted		M1A0
	30 out of 150 or 30 : 150 with no other working		M0A0

Q6. (2020)

Q	Answer	Mark	Comments
18(a)	$\frac{110}{100} \times 80$ or (10% =) 8	M1	oe eg $80 + \frac{1}{10} \times 80$ or $80 + 8$ or 8×11 or 110×0.8 or 1.1×80 or 72 (implies 8)
	88	A1	
	Additional Guidance		
	88% as answer		M1A0

Q7. (2022)

Q	Answer	Mark	Comments
9	$\frac{50}{100} \times 14$ or 7	M1	oe eg $14 \div 2$
	$14 - 5 + 1$ or 10 or their $7 - 5 + 1$ or 3	M1	oe their 7 must be an integer, where $4 < \text{their } 7 < 14$ 3 implies M1M1
	$\frac{3}{10}$ or 3 : 7	A1	oe
	30	B1ft	ft their $\frac{3}{10}$ correctly converted to a percentage
	Additional Guidance		
	For the B1ft, their percentage must be correct to 2sf or better		
	30 on the answer line with no incorrect working		M2A1B1
	3 in 10 or 3 out of 10		M2A1
	3 : 10		M2A0
	$7 - 5 = 3 + 1 = 4$, answer 40 (10 implied)		M2A0B1ft

Q8. (2023)

Q	Answer	Mark	Comments
12	100	B1	

Q9. (2023)

Q	Answer	Mark	Comments
15	2×3 or 6 or 4×5 or 20 or 14 or 0.3	M1	oe
	(their 20 – their 6) $\div$ their 20 or $1 - \frac{6}{20}$ or $\frac{14}{20}$ or $1 - 0.3$ or 0.7 or 30(%)	M1dep	
	70	A1	SC2 44.4 or better SC1 $\frac{4}{9}$ or $\frac{8}{18}$
	Additional Guidance		
	SC1 $\frac{4}{9}$ or $\frac{8}{18}$ use of perimeter without conversion to a percentage SC2 44.4 use of perimeter converted to a percentage		
	Up to M2 may be awarded for correct work seen in multiple attempts even if not subsequently used		
	Ignore any units		

Q10. (2024)

Q	Answer	Mark	Comments
3(a)	50	B1	

Q11. (2024)

Q	Answer	Mark	Comments
10	Method for finding 1% or a multiple of 5% or 1200×35 or 42 000 or 0.35	M1	may be implied by a correct value
	Fully correct method that would lead to the correct answer	M1dep	
	420	A1	SC2 780 SC1 digits 42
	Additional Guidance		
	Values or methods assigned to a percentage must be correct		
	Ignore a % sign after answer		