

Q1. (2017)

11	Alternative method 1		
	Any correct scaling of the ratio 5 : 2 eg 10 (:) 4 or 20 (:) 8 or 25 (:) 10	M1	oe
	22.5 (:) 9 or 22.5 (red) or 30 (:) 12 or 12 (blue)	M1dep	oe
	31.5 or $31\frac{1}{2}$ or $\frac{63}{2}$	A1	
	Alternative method 2		
	9 ÷ 2 or 4.5 or 30 ÷ 5 or 6	M1	oe 2 ÷ 9 or 0.22... 5 ÷ 30 or 0.16... or 0.17
	5 × their 4.5 or 22.5 or 7 × their 4.5 or 2 × their 6 or 12 or 7 × their 6 or 42	M1dep	oe
	31.5 or $31\frac{1}{2}$ or $\frac{63}{2}$	A1	
	Alternative method 3		
	$\frac{2}{7}$ × purple = blue $\frac{5}{7}$ × purple = red	M1	oe $\frac{2}{7}$ × purple = 9 $\frac{5}{7}$ × purple = 30
	$9 \times \frac{7}{2}$ or $30 \times \frac{7}{5}$ or 42	M1dep	oe
	31.5 or $31\frac{1}{2}$ or $\frac{63}{2}$	A1	

Q2. (2019)

6	8.5(0) or 9.49 or 9.5(0) or 6.25 or 6.74 or 6.75	B1	
	9.49 + 6.74 or (9, 9.5] + (6.5, 6.75]	M1	
	16.23	A1	accept (£)16.23p SC2 16.25 or 16.24
	Additional Guidance		
	9.5(0) and 6.55 with answer 16.05		B1M1A0
	9.4(0) and 6.25 with answer 15.65		B1M0A0
	9.4(0) and 6.55 with answer 15.95		B0M1A0

Q3. (2019)

9	Alternative method 1 – PQ as the unknown		
	$x + 10$ or $2(x + 10)$	M1	any unknown
	$x + x + 10 + 2(x + 10) = 170$	M1dep	oe any consistent unknown x + their two expressions (with at least one correct) = 170
	$4x + 30 = 170$	M1dep	oe $4x = 140$ must be correct
	35	A1	
	Alternative method 2 – PR as the unknown		
	$x - 10$ or $2x$	M1	any unknown
	$x + x - 10 + 2x = 170$	M1dep	oe any consistent unknown x + their two expressions (with at least one correct) = 170
	$4x - 10 = 170$ or $x = 45$	M1dep	oe $4x = 180$ must be correct
	35	A1	
	Alternative method 3 – QR as the unknown		
	$\frac{x}{2}$ or $\frac{x}{2} - 10$	M1	any unknown
	$x + \frac{x}{2} + \frac{x}{2} - 10 = 170$	M1dep	oe any consistent unknown x + their two expressions (with at least one correct) = 170
	$2x - 10 = 170$ or $x = 90$	M1dep	oe $2x = 180$ must be correct
	35	A1	