1	40 ÷ 5 or 8	M1	may be seen on diagram eg 8 in one of the circles or as a key implied by ◖ = 4
	their 8 × 3.5 or their 8 + their 8 + their 8 + $\frac{\text{their 8}}{2}$	M1dep	oe calculation that would evaluate to 28 eg 8 + 8 + 8 + 4 or 3 × 8 + 4 or their 4 × 7
	28	A1	
	Additional Guidance		
	Answer 28		M1M1A1
	Condone recovery eg 8 × 3 + $\frac{1}{2}$ = 28		M1M1A1
	Only eg 8 × 3 + $\frac{1}{2}$ with no recovery to 28		M1M0A0
	Further work eg 8 × 3.5 = 28, 28 × 4 (and answer 112)		M1M0A0
	eg Chicken = 8 + 16 + 24 + 28		M1M0A0

Q	Answer	Mark	Comments
2(a)	$1\frac{1}{4}$ symbols added to Geography	B1	mark intention

Q	Answer	Mark	Comments
2(b)	**Alternative method 1 – pieces of homework**		
	5 × 4 or 20 or 3.5 × 4 or 14	M1	oe check diagram
	5 × 4 + 3.5 × 4 + 5 or their 20 + their 14 + 5 or 39	M1dep	oe
	19 hours 30 minutes	A1	
	Alternative method 2 – time taken		
	Correct method to find the time taken (in minutes or hours) for one subject	M1	check diagram eg (in minutes) 5 × 4 × 30 or 600 (M) 3.5 × 4 × 30 or 420 (E) 1.25 × 4 × 30 or 150 (G) eg (in hours) 5 × 2 or 10 (M) 3.5 × 2 or 7 (E) 1.25 × 2 or 2.5 (G)
	Correct method to find the time taken (consistently in minutes or hours) for all three subjects or 1170 (min) or 19.5 (h)	M1dep	
	19 hours 30 minutes	A1	
	Alternative method 3 – number of symbols		
	5 + 3.5 + 1.25 or 9.75	M1	oe
	their 9.75 × 4 or 39	M1dep	oe
	19 hours 30 minutes	A1	
	Additional Guidance		
	$19\frac{1}{2}$ (hours) or 19.5 (hours) or 19.30		M1M1A0
	Mark using the Alt that gives the best mark		

Q	Answer	Mark	Comments
3	(R =) 16 (days) or 4 (symbols) or (Sn =) 10 (days) or 2.5 (symbols) or (C =) 18 (days) or 4.5 (symbols) or (total =) 44 (days) or 11 (symbols) or evidence of addition with answer of 11 (symbols) or 55 ÷ 4 or 13.75 (symbols)	M1	
	55 – their 16 – their 10 – their 18 or 55 – 44 (= 11) or 2 values for Sun and Fog with a total of 11 or their 13.75 – 11 or 2.75	M1dep	oe at least one of 16, 10, 18 correct may be on diagram
	6 and 5 or Sun = 1 full and 1 half symbol or Fog = 1 full and 1 quarter symbol	A1	either order, may be on diagram
	Sun = 1 full and 1 half symbol and Fog = 1 full and 1 quarter symbol	A1ft	ft their 11 days (must be an odd number) where Sun is one more than Fog
	Additional Guidance		
	Mark intention for drawings, quarter and half symbol any orientation or angle. Must be attempt at correct size		
	11 with no working seen or their symbols totalling 11 quarters		M1M1

Q	Answer	Mark	Comments
4(a)	(One test) One and a half symbols	B1	allow any orientation for the half circle
	(Two tests) Three symbols	B1	
	(Three tests) Four symbols	B1	SC1 totals seen for either pictogram ie 12, 16, 6 for group A or 6, 12, 16 or 1.5, 3, 4 for group B
	Additional Guidance		
	Mark intention eg accept any attempt at circle and half circle symbol (unless obviously intended to be quarter or three-quarter circle) and allow different sizes and symbols such as plain circles		
	Two half circle symbols are not acceptable for a whole circle (unless joined to make a circle)		
	Alignment of symbols is not being tested		
	Apart from the Special Case, ignore numbers given		
	SC1 may be implied by 6, 12 and 16 symbols		
	One test  **Two tests**  **Three tests** 		B1B1B1

Q	Answer	Mark	Comments
5(a)	5×20 or 100 or 2×20 or 40 or $5 - 2$ or 3 or 5×4 or 20 **and** 2×4 or 8 **and** $20 - 8$ or 12	M1	oe eg $20 + 20 + 20$ eg $20 + 20 + 20 + 20 + 20$ may be by the diagram
	60	A1	
	Additional Guidance		
	Answer 60b BOD 60 bottles		M1A1
	Further work eg $60 + 30 = 90$		M1A0

Q	Answer	Mark	Comments
5(b)	**Alternative method 1**		
	$6\frac{1}{4} \times 20$ or 125	M1	oe eg $6 \times 20 + \frac{1}{4} \times 20$ or $120 + 5$ may be by the diagram
	their $125 \times 17.5(0)$	M1	oe
	2187.5(0)	A1	
	Alternative method 2		
	$6\frac{1}{4} \times 17.5(0)$ or 109.375 or 109.37 or 109.38	M1	oe eg $6 \times 17.5(0) + \frac{1}{4} \times 17.5(0)$ or $105 + 4.375$
	their 109.375×20	M1	oe
	2187.5(0)	A1	
	Alternative method 3		
	$20 \times 17.5(0)$ or 350	M1	oe
	their $350 \times 6\frac{1}{4}$	M1	oe eg their $350 \times 6 + \frac{1}{4} \times$ their 350 or $2100 + 87.5(0)$
	2187.5(0)	A1	
	Additional Guidance		
	2187.50p		M1M1A1
	Alt 1 $6 \times 20 = 120$ $120 \times 17.5(0)$		 M0 M1A0
	Alt 2 $6 \times 17.5(0) = 105$ 105×20		 M0 M1A0