

Q1 June 2020

26	(a)	Yes (supported)	P1	for start of process, eg $5 \times 9 (= 45)$ or $10 \times 14 (= 140)$ or $5 \times 2 (= 10 \text{ (kg)})$ or $3 \div 2 (= 1.5 \text{ (boxes)})$	Accept values rounded or truncated to 1dp in both (a) and (b). Ignore units
			P1	for process using ratio of areas, eg $"140" \div "45" (= 3.1...)$ or for using ratio of amount of seed eg $"10" \div 3 (= 3.3...)$ or for finding coverage for 1 kg of grass seed, eg $"45" \div 3 (= 15 \text{ (m}^2\text{)})$	
			P1	for process to find amount of seed needed, eg $"140" \div "45" \times 3 (= 9.3... \text{ kg})$ or $"140" \div "45" \times "1.5" (= 4.6... \text{ (boxes)})$ oe or $"15" \times 2 (= 30 \text{ (m}^2 \text{ per box)})$ and $"140" \div "30" (= 4.6... \text{ (boxes)})$ or for process to find area that can be seeded, eg $"10" \div 3 \times "45" (= 150 \text{ (m}^2\text{)})$ or $"140" \div "10" (= 14 \text{ (m}^2\text{)})$ oe	
	(b)	Yes, (does not have enough) (supported)	C1	for "Yes" supported by correct figures eg 4.6...(and 5), or 9.3...and 10 or 150 and 140 (or 140 to 148.5) or 15 and 14	Accept 9.4 Accept 4.7
			C1	for reasoning supported with correct figures, eg does not have enough seed and compares 9 (kg) with 9.3...(kg) or 4.5 (boxes) with 4.6... (boxes) or 135 (m ²) with 140 (m ²) or 14 (m ²) with 15 (m ²) ft from (a)	Values used in (a) do not need repeating in (b) as long as intention is clear

Q2 June 2024

17	180, 300, 75	M1	for complete method to find amount needed for 30 biscuits for one ingredient, eg $120 \div 20 \times 30 (= 180)$ oe eg $120 + 120 \div 2 (= 180)$ or for method to find a scale factor, eg $30 \div 20 (= 1.5 \text{ oe})$ or for method to find amount needed for 10 biscuits for at least 2 ingredients eg $120 \div 2 (= 60)$ or $200 \div 2 (= 100)$ or $50 \div 2 (= 25)$ or for method to find amount needed for 1 biscuit for at least 2 ingredients eg $120 \div 20 (= 6)$ or $200 \div 20 (= 10)$ or $50 \div 20 (= 2.5)$
		M1	for complete method to find amount needed for 30 biscuits for at least 2 ingredients, eg at least 2 of $120 \div 20 \times 30 (= 180)$ or $200 \div 20 \times 30 (= 300)$ or $50 \div 20 \times 30 (= 75)$ oe or eg at least 2 of $120 \times "1.5" (= 180)$ or $200 \times "1.5" (= 300)$ or $50 \times "1.5" (= 75)$ or eg at least 2 of $120 + "60" (= 180)$ or $200 + "100" (= 300)$ or $50 + "25" (= 75)$ or eg at least 2 of $30 \times "6" (= 180)$ or $30 \times "10" (= 300)$ or $30 \times "2.5" (= 75)$
		A1	for all quantities correct

Q3 Nov 2017

12	Complete methods $3.60 \div 2.5 \times 3.5$ or $3.60 \div 5 \times 7$	5.04	M1	for a correct first step to find the cost of a unit of weight (eg. 1 kg or 0.5 kg) eg $3.60 \div 2.5 (= 1.44)$ or $3.60 \div 5 (= 0.72)$ or a complete alternative method
	or $3.5 \div (2.5 \div 3.6)$ or $\frac{3.5}{2.5} \times 3.6$ or $3.6 \div \frac{2.5}{3.5}$		A1	for 5.04 (accept £5.04p)

Q4 Nov 2022

20	100g butter 25g sugar 1 egg	P1	for process to find the amount needed of one ingredient for 25 scones	amount needed: 200g butter 875 flour 75 sugar 5 eggs
		P1	for process to find the amount needed for at least three ingredients for 25 scones or for process to find the correct amount more for at least two of butter, sugar, eggs	
		P1	for complete process to find amount more for each of butter, sugar, eggs	
		C1	for correct amounts more shown for butter, sugar, eggs	Flour can be excluded, but no incorrect information about flour should be given.