M1.	Alternative method 1	
	1700 ÷ (10 + 10 + 10 + 20) or 1700 ÷ 50 or 50x = 1700 or 34	
	Oe	M1
	3 × their 34	M1dep
	102	A1
	Alternative method 2	
	Ratio 30 : 20 seen or implied oe	М1
	1700 ÷ 5 × 3 or 1020 or 1700 ÷ 5 × 2 or 680 oe	M1dep
	102	A1

Alternative method 3

Chooses 10p and 20p coins in the ratio 3 : 1 and works out their total value

[3]



A1ft

[4]

(a)	720 ÷ 6 or 120	
	720 ÷ 6 × 5 or 600	M1
	600 and 120	A1
	Additional Guidance 120 and 600 (order reversed)	M1A0
(b)	135 + 70 + 35 or 240	M1
	<i>their</i> 240 ÷ 6 or 40	M1dep
	2 × <i>their</i> 40 or 80	M1dep
	10 ignore fw	A1
	Additional Guidance Gemma 10, Beth 5, answer 15 scores full marks	M1M1M1A1
	(120 and) 80 and 40 may be written next to the 3 : 2 : 1 in the question	M1M1M1A0
	Beware of 10 from incorrect working e.g. $135 \div 3 = 45$, $70 \div 2 = 35$, $35 \div 1 = 35$, answer 10 scores 0	M0M0M0A0

M4.

M3.

7:5

B1 Any ratio equivalent to 7:5

or 5:7

or any ratio correctly simplified

B2

[6]

M5.					
	(a)	25(%) : 75	5(%)		
		or $\frac{1}{4}: \frac{3}{4}$			
			oe	M1	
		1:3	SC1 3:1	4.1	
				AI	
	(b)	19.5 ÷ 3			
		or 26 ÷ 4			
		or 6.5			
			oe 19.5 ÷ 75 × 25	M1	
		6.50			
			Correct money notation	A1	
		Additiona	I Guidance		
		Condone	b.50p on answer line provided £ sign is not crossed out	M1A1	[4]

M6.

Alternative method 1

500 × 10 or 5000	M1
their 5000 ÷ 1500 or repeated addition of 1500 (at least 3)	
Allow their 5000 from 500 × 10	
or 500 × 11	M1

3⅓ or 3.3 ()	4500 or 6000 3⅓ or 3.3() can be implied by an an answer of 4 from correct working	A1
4 (bottles)	ft their fraction or decimal answer rounded up to nearest integer. SC2 for 4 with no working or unsupported	B1 ft
Alternative met	hod 2	
1500 ÷ 10 or 150) 1 bottle of water is enough for 150 ml apple juice	M1
500 ÷ their 150	or repeated addition of 150 (at least 3) Allow their 150 from 1500 ÷ 10 or 1500 ÷ 11	M1
3⅓ or 3.3 ()	450 or 600 3⅓ or 3.3() can be implied by an an answer of 4 from correct working	A1
4 (bottles)	ft their fraction or decimal answer rounded up to nearest integer. SC2 for 4 with no working or unsupported	B1 ft

[4]

M7.(a)
$$300 \div 4$$
 or 75
or 300×1.5
2 cakes = $300 \div 2$ or 2 cakes = 150
or
 12 cakes = 300×3 or 12 cakes = 900
oe
any correct scaling
M1
450
A1
(b) $(1.5 \text{ kg} =) 1500 \text{ (g)}$
or $300 \text{ g} = 0.3 \text{ kg}$ or $150 \text{ g} = 0.15 \text{ kg}$
seen or implied
H
their $1500 \div$ their 75
or $6 (\div) 6 (\div) 2$
or 5×4 or $4 (\div) 4 (\div) 4 (\div) 4 (\div) 4$
oe
M1
20
SC2 14 cakes from $1050g$
A1
Alternative method

(1.5 kg =) 1500 (g)or 300 g = 0.3 kg or 150 g = 0.15 kg

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M8.Packs of 6/Packs of 2

1.38 × 3

M1

[5]

4	4.14		
		1.39	A1
2	2 pack identified	Strand (iii) ft their values provided method mark has been awarded	Q1ft
	Alternative Meth	nod 1 Scaling (multiples of 6)	
	1.38 × 6 and 4.1	7 × 2 oe	M1
8	3.28 and 8.34	oe	A1
4	2 pack identified	Strand (iii) ft their values provided method mark has been awarded	Q1ft
	Alternative Meth	nod 2 Price per roll	
	1.38 ÷ 2 and 4.1	7 ÷ 6 oe	M1
(0.69 and 0.695	oe Accept 0.69 and 0.7(0)	A1

2 pack identified

	Strand (iii) ft their values provided method mark has been awarded	Q1ft
Alternative Meth	od 3 Rolls per £	
2 ÷ 1.38 and 6 ÷ 4	4.17	M
1.44 and 1.43		Al
2 pack identified	Strand (iii) ft their values provided method mark has been awarded	Q1ft
Alternative Meth	od 4 Comparing proportions	
4.17 ÷ 1.38 and 6	÷ 2 1.38 ÷ 4.17 and 2 ÷ 6	M1
3.02 and 3	0.330 or 0.331 and 0.333	A1
2 pack identified	Strand (iii) ft their values provided method mark has been awarded	Q1ft
Additional Guida	ance	

Ignore any units throughout, e.g. 0.69p and 0.695p

Students can scale up to any multiple of 6, e.g. 12, 18, 24, etc.

Scale up to 18: 1.38 × 9 and 4.17 × 3	M1
12.42 and 12.51	A1
2 pack identified	Q1
Scale up to 24: 1.38 × 12 and 4.17 × 4	M1
16.56 and 16.68	A1
2 pack identified	Q1
Alternative method 5: 1.38 \times 2 = 2.76 and 4.17 – 2.76	M1
1.41	A1
2 pack identified	Q1

The Q mark can be awarded if the candidate has scored M1 and has made a correct comparison from their two values

Pack of 2 identified with no correct working scores no marks

[3]

$$\frac{4860}{5+4+3}$$
 or 405

 or $\frac{5}{12}$ or $\frac{4}{12}$ or $\frac{3}{12}$

 M1

 2025 or 1620 or 1215

 A1

 2025 and 1620 and 1215

 Must be in correct order

 A1

Additional Guidance

ANSWERS MUST BE IN THE CORRECT ORDER

BEWARE:

4860/5 = 972, 4860/4 = 1215, 4860/3 = 1620 which gives two correct answers in the wrong order, so answers must be from correct working (972 flags up an incorrect method)

M0A0A0

M10. (a)	280 ÷ 4	M1
	Kiwi = 70	A1
	Yogurt = 210 ft 280 – their 70. Allow their 70 × 3 if M1 awarded SC1 for 35 and 105	A1ft
(b)	$72 \times \frac{30}{100}$ (= 21.6)	M1

72 + their 21.6 or 22

[7]

	M11	Dep
93	3.6 or 94	A1
94	pence or £0.94 Strand (i) – Correct money notation ft their 93.6 rounded to nearest integer	Q1
Alt	ternative	
1.3	3 seen	M1
72	2 × 1.3	M1
93	3.6 or 94	A1
94	pence or £0.94 Strand (i) – Correct money notation ft their 93.6 rounded to nearest integer SC3 for 93p with no working	Q1
M11		
(a) 28	80 ÷ 4	M1
Kiv	wi = 70	A1
Yo	ogurt = 210 <i>ft 280 – their 70.</i> <i>Allow their 70 × 3 if M1 awarded</i> <i>SC1 for 35 and 105</i>	Alft

(b)
$$\frac{1}{4+1+3} \times 100$$

3

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		$\frac{70}{280 + 70 + 210} \times 100$	
		ft their weights	M1
	12.5	ft their weights	A1 ft
(c)	(i)	$72 \times \frac{30}{100} (= 21.6)$ oe	M1
		72 + their 21.6 or 22	
			M1 Dep
		93.6	A1
		94 pence or £ 0.94 Strand (i) – Correct money notation ft their 93.6 rounded to nearest integer	Q1
		Alternative	
		1.3 seen	M1
		72 × 1.3	
		02.6 04	M1
		93.0 01 94	A1
		94 pence or £0.94 Strand (i) – Correct money notation ft their 93.6 rounded to nearest integer	
		SC3 for 93p with no working	Q1
	(ii)	0.4 × 15 (= 6) 78 implies this mark	M1
		$\frac{\text{their 6}}{72} \times 100 \text{ or } \frac{78}{72} \times 100$	

15 72 × 100 (= 20.83) and	
$\frac{15+6}{72} \times 100 \ (= 29.16)$	M1
8.3	A1
Organised response	
Strand (ii) – present a logical mathematical argument with key steps clearly shown	
Dep on M2 awarded	Q1

[13]