

Ratios Level 1 – Answer Sheet

<p>1</p> <p>Finds amount of squash needed</p> <p>$1+4$ parts = 5 parts</p> <p>20 Litres / 5 parts = 4 L of squash</p>	<p>M 1 mark</p>
<p>Finds the cost of 1 bottle of squash</p> <p>$£2.40 / 3 = 80p$ or $£0.80$ per bottle</p>	<p>M 1 mark</p>
<p>Finds the cost of 4 bottles of squash, or their number of bottles</p> <p>$4 \times 80p$ or $4 \times £0.80 = £3.20$ or 320p</p>	<p>Ft using their number of bottles 1 mark</p> <p>Or M 1 mark</p>
<p>Compares $£3.20$ (or their value) to $£5$ and states appropriately if correct</p> <p>no she is not correct</p>	<p>M (ft) 1 mark</p> <p>Or</p> <p>A 1 mark</p>
<p>2</p> <p>Chooses Phone B</p>	<p>A 1 mark</p>
<p>Shows a suitable conversion sum between $8 : 20$ and $1 : 2.5$</p>	<p>M 1 mark</p>

3	
Eggs = 8	A 1 mark
Flour = 450 g	A 1 mark
Milk = 50 g	A 1 mark
4	
Works out the parts required for blue and yellow paint 16L / (1+3) parts = 4L	M 1 mark Or A 1 mark
Finds the amount of Blue paint (or Yellow paint) 4L x 1 part blue = 4L of blue req. 4L x 3 part yellow = 12L of yellow req.	1 mark for either 4L or 12L
Finds the cost of blue/yellow paint Blue 4L so 1 tin req. £12 Yellow 12L so x2 tins req. £14x2 =£28	1 mark or 1 mark
Correctly adds (their) costs up Blue £12 + yellow £28 = £40	Ft 1 mark (their costs) Or A 1 mark

<p>5</p> <p>Finds the size of either smaller width or length from the original</p> <p>$30\text{cm} / 4 = 7.5\text{cm}$ Or $70\text{cm} / 4 = 17.5\text{cm}$</p>	<p>M 1 mark Or M 1 mark</p>
<p>Compares either length found with its corresponding width or length</p> <p>7.5 is larger than 7, so no it will not fit Or 17.5 is larger than 15, so not it will not fit</p>	<p>A 1 mark Or A 1 mark</p>
<p>6)</p> <p>Choosing correct member number</p> <p>1009</p>	<p>A 1 mark</p>
<p>Showing workings of $75\text{kg} / 90\text{kg} = 0.83$, or $90/75 = 1.2$ and $6/5=1.2$</p> <p>$5/6 = 75/90$ or equivalent fraction</p>	<p>M 1 mark Or M 1 mark</p>
<p>7</p> <p>Multiplying using the exchange rate</p> <p>$\text{£}300 \times 1.34$</p>	<p>M 1 mark</p>
<p>Correct amount of dollars = \$402</p>	<p>A 1 mark</p>

<p>Removing the \$5 after</p> <p>$\\$402 - \\$5 = \\397</p>	M 1 mark
<p>Comparing \$400 and \$397 correctly stating NO</p>	A 1 mark
<p>8</p> <p>Find the number of patterns that fit into 800 tiles</p> <p>$800 \text{ tiles} / 2 \text{ tiles} = 400 \text{ patterns req.}$</p>	A 1 mark
<p>Multiplying 400 patterns of either</p> <p>Yellow 1 tile x 400 = 400 yellow tiles Red ½ tile x 400 = 200 red tiles Green ½ tile x 400 = 200 green tiles</p>	<p>Or Or M 1 mark</p>
<p>Find the number of one of the colours</p> <p>Yellow $400 \text{ tiles} / 15 \text{ per box} = 26.6$ or 27 boxes required</p> <p>Red/Green $200 \text{ tiles} / 15 = 13.3$ or 14 boxes required</p>	<p>M 1 mark Or M 1 mark</p>
<p>Correct costing of a set of tiles</p> <p>Yellow $27 \times £2 = £54$ or Red/Green $14 \times £3 = £42$</p>	M 1 mark
<p>Total all the tiles</p> <p>$£54 + £42 + £42 = £138$</p>	A 1 mark

