

1	☐	V is directly proportional to H	B1	
	☒	V is inversely proportional to H		
	☒	V is directly proportional to $\frac{1}{H}$		
	☐	V is inversely proportional to $\frac{1}{H}$		

Q	Answer	Mark	Comments
2	$c = \frac{2}{d}$	B1	

Q	Answer	Mark	Comments
3	Alternative method 1		
	270 ÷ 3 or 90 or 270 × 50 or 13500 or 270 × 0.5(0) or 135	M1	oe
	270 ÷ 3 × 50 or 270 ÷ 3 × 0.5(0)	M1dep	oe
	45	A1	
	Alternative method 2		
	Correctly finds units and cost for at least 30 miles	M1	eg 30 miles = 10 units and 10 units cost (£)5
	Correct method for cost of 270 miles	M1dep	
	45	A1	
	Additional Guidance		
	45.00(p)	M1M1A1	
	45.0	M1M1A0	
	Accept 0.33(...) or 33(...) % for $\frac{1}{3}$		
	Further work eg 45 ÷ 2	M1M1A0	
	Embedded answer of 45 but not selected	M1M1A0	

Q	Answer	Mark	Comments
4(a)	$2 \times 8.5(0)$ or $17(.00)$	M1	oe
	$38 - \text{their } 17$ or 21	M1dep	
	$\text{their } 21 \div 5$ or 4.2	M1dep	oe eg $5 \times 4.2(0)$
	4.20	A1	correct money notation SC2 5.90 SC1 5.9
	Additional Guidance		
	Special case is for using 1 metre of linen at £8.5(0)		
	Allow 4.20(p) for the A mark		
	$4.20 \div 5 = 84\text{p}$		M1M1M1 A0

Q	Answer	Mark	Comments
4(b)	14×0.65 or $9.1(0)$ or 15×0.65 or 9.75 or $10 \div 0.65$ or $15.3(\dots)$ or 15.4 or $(5 - 7 \times 0.65) \times 2$ or $0.9(0)$	M1	oe allow in pence
	No and 15 with M1 awarded or No and (£)9.75	A1	oe eg No and she can get 1 more with M1 awarded
	Additional Guidance		
	Yes ticked		max M1A0
	No may be implied if neither box ticked		
	$0.65 \times 14 = 9.1$ she can buy another No ticked		M1A1
	$10 \div 0.65 = 15.38$ No ticked		M1A0
	$0.65 \times 14 = 9.1$ she can buy more No ticked		M1A0
	She can get 15 not 14 No ticked		M0A0
	The left over change would make up another 65p so enough for another button No ticked		M0A0

Q	Answer	Mark	Comments						
5(a)	<table><tr><td>2</td><td>6</td><td>8</td></tr><tr><td>120</td><td>40</td><td>30</td></tr></table>	2	6	8	120	40	30	B2	B1 40 or 8 in the correct position or $(k=)$ 120×2 or $(k=)$ 240 seen
	2	6	8						
	120	40	30						
	Additional Guidance								
$(k=)$ 240 or $(k=)$ 120×2 may be seen anywhere on the page									
240 may be seen embedded in the formula eg $120 = \frac{240}{2}$		B1							

Q	Answer	Mark	Comments
6	15×0.64 or 9.6	M1	oe eg1 $20 \times 0.64 \times \frac{3}{4}$ eg2 $20 \times 0.64 - (20 \div 4) \times 0.64$
	1.7×0.9 or 1.53 or 1.7×6 or 10.2	M1	oe eg $1.7 - 0.1 \times 1.7$
	$1.7 \times 0.9 \times 6$ or 9.18	M1dep	oe eg $10.2 - 0.1 \times 10.2$ dep on 2nd M1
	their $9.18 + 2 \times 0.62$ or 10.42	M1	oe their 9.18 must be 6 times their pack price
	Shop A Cheaper by £0.82	A1	oe eg Shop A Cheaper by 82p
	Additional Guidance		
	Accept working in pounds or pence		
	Mixed units in the 4th M1 mark must be recovered with a correct value for their calculation 960 and $9.18 + 2 \times 62$ 960 and $9.18 + 2 \times 62$ and 10.42		M1M1M1M0 M1M1M1M1
	$10.20 + 2 \times 0.62$ or 11.44 score the 2nd and 4th M1 mark		