

1	$60 \times 4$ or $4(a \times 60)$ or $4a \times 60$ or $\frac{b}{a} = 60$ or $\frac{4b}{\cancel{b}/60}$ or $4b = 240a$ or $\frac{240a}{a}$	M1	accept any multiplication signs
	240	A1	Condone $\frac{240}{1}$
	<b>Additional Guidance</b>		
	Correct answer found by substituting appropriate values for $a$ and $b$	M1A1	
	Incorrect answer found by substituting appropriate values for $a$ and $b$	M0A0	
	Award M1 for $60 \times 4$ or 240 in working, either as individual expressions or as part of longer expressions eg $4 \times 60 = 240$ , answer $240b$ eg $\frac{4 \times 60 \times a}{4b}$	M1A0  M1A0	
Do not award M1 for 240 within a list of multiples of 60 that continues beyond 240			

2	is greater than	B1	allow >
	is equal to	B1	allow =
	is equal to	B1	allow =
	is less than	B1	allow <
	<b>Additional Guidance</b>		
	Do not allow $\geq$ or $\leq$ or $\equiv$		
	Do not allow contradictions eg < is greater than		

Q	Answer	Mark	Comments
3	60	B2	B1 $10^2 - 4 \times 10$ or $10^2 - 4(10)$ or 100 or 40 or -40 seen or implied
	<b>Additional Guidance</b>		
	Embedded correct value eg $100 - 4a = 96a$		B1
	Further correct work eg $100 - 40 = 60$ , Answer $6a$		B2
	Further incorrect work eg $100 - 40 = 60$ , Answer $60a$		B1
	Values may be implied eg1 $10^2 - 4 = 96$ implies 100 eg2 96 only does not imply 100		B1 B0
	Incorrect calculations cannot imply a value eg $10^2 - 4a = 96a$		B0
	$100a$ does not imply 100		B0

Q	Answer	Mark	Comments
4 (a)	$8 \times 25$ or 200 or $25^2$ or 625	M1	oe
	$8 \times 25$ or 200 and $25^2 - b$ or $625 - b$ or $25^2 - 8 \times 25$ or $625 - 200$	M1dep	oe may be seen in an equation
	425	A1	
	<b>Additional Guidance</b>		
	Embedded answer		M1M1A0

Q	Answer	Mark	Comments
5(a)	$5 \times 4$ or 20	M1	oe
	18	A1	
Q	Answer	Mark	Comments
5(b)	$-40 + 10$ or $-30$ or $-40 = 5P - 10$ or $P = \frac{T+W}{5}$	M1	
	their $-30 \div 5$	M1dep	
	-6	A1	SC2 $-10$ with $-50$ seen
	Additional Guidance		
	Embedded answer of $-6$		M1M1A0
	SC2 $-10$ with $-50$ seen for $-40 + 10 = -50$ and then $\div 5$		
	$-40 = 5P - 10$ may use a different letter or symbol for $P$ but not $T$ or $W$		

Q	Answer	Mark	Comments
6	$3 \times 13 + 4 \times -2$ or ( $3r =$ ) 39 or ( $4t =$ ) $-8$	M1	oe
	31	A1	
	Additional Guidance		
	$39 + 8$		M1A0
	39 or $-8$ may be implied by a calculation eg $3 \times 13 + 4 \times 2 = 47$		M1A0
	47 only does not imply 39		M0A0
	Values are not implied by incorrect expressions eg only $39r$		M0
	Incorrect further work		A0

Q	Answer	Mark	Comments
7	$\times \frac{3}{2}$	B1	

Q	Answer	Mark	Comments
8(a)	2 × 6 or 12 or 1700	M1	oe
	17(.00)	A1	accept 1700p
Q	Answer	Mark	Comments
8(b)	9.5 or $9\frac{1}{2}$ or valid reason	B1	eg shows that 9 windows cost £23 and 10 windows cost £25 or you can't have half a window
	Additional Guidance		
	Calculated values must be correct		
	(19, 21,) 23, 25 (, 27...)		B1
	Even number + 5 can't be even / can't end in a 4		B1
	There's no whole number you can times by 2 to get to 19		B1
	There's no number you can times by 2 to get to 19		B0
	Even + 5 = odd, 24 is even		B1
	Even + 5 = odd		B0
	Costs are all always odd numbers, 24 is even		B1
	Costs are all always odd numbers		B0
	19 is a prime number and so doesn't divide exactly by 2		B1
	19 is a prime number		B0