

1	69.2	B1	for a correct measurement of either length or width, eg 11.5 (cm) or 5.8 (cm)	Allow measurements 11.3 to 11.7 cm and 5.6 to 6.0 cm NB: could work in mm [length] in the range 11.0 to 12.0 [width] in the range 5.0 to 6.5 NB: could work in mm This mark can be awarded for the conversion of any amount in cm to m (ie not from an area) calculations could be in cm or in m and could be scaled or unscaled figures SC: award 3 marks for an answer in the range 67.6 to 70.8 using measurements outside the above ranges
		P1	for process to find actual dimensions, eg [length] × 200 (= 2300) or [width] × 200 (= 1160)	
		P1	(indep) for process to convert to metres [length in cm] ÷ 100 eg "2300" ÷ 100 (= 23) or "1160" ÷ 100 (= 11.6)	
		P1	(indep) for process to find the perimeter, eg "23" × 2 + "11.6" × 2 (= 69.2) or "11.5" × 2 + "5.8" × 2 (= 34.6)	
		A1	for an answer in the range 67.6 to 70.8	

2	(a)	Explanation	C1 for a correct explanation, eg that he has found the area not perimeter Acceptable examples He has found the area (not perimeter) He should have added The perimeter is 7+3+7+3 (=20) oe He did base×height He has timesed (not added) Not acceptable examples He has worked it out wrong He should have squared it He should have done 14×6 or 7×3×7×3 or 7×3 twice then add them He didn't include the top or the other side He should have doubled it It should be P=7×3 or he has done the sum not found the answer	Any incorrect statement as part of a correct response can be ignored unless it contradicts the statement, eg. he found area but perimeter equals 10
	(b)	Explanation	C1 for correct explanation, eg that you cannot have a length of -2 Acceptable examples x cannot be negative Cannot have a negative length Has to be positive It is impossible Can't have -2(cm) (as a measurement) It has to be more than 0 Not acceptable examples You can have -2 Won't add to 180 He has a minus sign and the other sides have add signs It has to be a whole number or decimal there are no negative numbers to get a negative answer there is no cm after his answer It should be +2	

3	34	M1	for start to method, eg 10 - 4 (= 6) or 7 - 5 (= 2) or 10 + 7 + 4 + 5 (=26) or (10 + 7) × 2	6, 2 may be seen on diagram
		A1	cao	