

Question	Answer	Mark	Mark scheme	Additional guidance
8 (a)	300	P1	<p>for process to find total number of packets of crisps, eg $150 + 145 + 162 + 119 (= 576)$ OR for dividing the number of packets for one of the weeks by 48, eg $150 \div 48 (= 3.1... \text{ or } 4)$ or $145 \div 48 (= 3.0... \text{ or } 4)$ or $162 \div 48 (= 3.3... \text{ or } 4)$ or $119 \div 48 (= 2.4... \text{ or } 3)$</p>	
		P1	<p>for process to find the number of boxes, eg $"576" \div 48 (= 12)$ or $"3.1..." + "3.0..." + "3.3..." + "2.4..." (= 12)$ OR for multiplying the number of boxes for one of the weeks by 25, eg $"3.1..." \times 25 (= 78(.1...))$ or $"3.0..." \times 25 (= 75(.5...))$ or $"3.3..." \times 25 (= 84(.3...))$ or $"2.4..." \times 25 (= 61(.9...))$</p>	
		P1	<p>for process to find the total cost, eg $"12" \times 25$ or $[their\ 12] \times 25$ or $"78(.1...)" + "75(.5...)" + "84(.3...)" + "61(.9...)"$</p>	[their 12] must be an integer and is what they believe the total number of boxes to be
		A1	cao, must come from correct working	

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(b)	Explanation	C1	<p>for how the cost may be affected with reason</p> <p>Acceptable examples it may cost him more/less if he needs more/less than he assumed it could increase/decrease as more/less people can come to buy crisps Jon might spend more or less depending on how many sales he receives it would change the amount of boxes needed & therefore change the cost he may sell less so now he's spent more than he needs there could be no affect as if he only sold 530 packets he would still need to buy 12 boxes</p> <p>Not acceptable examples his assumption is correct price could increase or decrease it would change the amount of boxes needed he might need to buy another box if he sells more crisps then he will need more boxes</p>	<p>“530” can be any number between 529 and 576 inclusive</p> <p>Acceptable examples must refer to a change in both the number of boxes/packets of crisps required and the cost</p>