3 Hugh and Pau are planning to sell ice creams at a charity event.

They buy enough ingredients to make exactly 270 ice creams.

Hugh and Pau make vanilla flavour, strawberry flavour and chocolate flavour ice creams. The numbers of vanilla flavour, strawberry flavour and chocolate flavour ice creams they make are in the ratios 2 : 3 : 4

(a) Calculate the number of chocolate flavour ice creams they make.

(3)

Hugh and Pau buy all the ingredients for the 270 ice creams at a total cost of £64.80

They calculate the selling price of each ice cream so that if they sell all 270 ice creams, they would make a profit of £1.20 on each ice cream.

(b) Calculate the percentage profit that Hugh and Pau would make if they sell all 270 ice creams at their calculated selling price.

(3)

At the charity event, Hugh and Pau sell $\frac{8}{9}$ of the 270 ice creams at their calculated selling price.

They then sell the remainder of the ice creams at half this selling price.

(c) Calculate the total profit, in pounds, that they make by selling all 270 ice creams.

(3)

Question 3 continued

Turn over ▶

Question 3 continued

Question 3 continued

(Total for Question 3 is 9 marks)