

Question 8**(7 marks)**

The weight, X , of chicken eggs from a farm is normally distributed with mean 60 g and standard deviation 5 g. Eggs with a weight of more than 67 g are classed as 'jumbo'.

- (a) What proportion of eggs from the farm are 'jumbo'? (2 marks)
- (b) What proportion of 'jumbo' eggs are less than 75 g in weight? (3 marks)
- (c) The heaviest 0.05% of eggs fetch a higher price. What is the minimum weight of these eggs? (2 marks)