4. A manufacturer makes t-shirts in 3 sizes, small, medium and large.

20% of the t-shirts made by the manufacturer are small and sell for £10

30% of the t-shirts made by the manufacturer are medium and sell for £12

The rest of the t-shirts made by the manufacturer are large and sell for £15

(a) Find the mean value of the t-shirts made by the manufacturer.

(2)

A random sample of 3 t-shirts made by the manufacturer is taken.

(b) List all the possible combinations of the individual selling prices of these 3 t-shirts.

(2)

(c) Find the sampling distribution of the **median** selling price of these 3 t-shirts.

(6)

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Question 4 continued

(Total for Question 4 is 10 marks)