

Question 5

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Two samples from different populations were drawn. Their sample skewness were found to be -0.11 and -2.45 . Figure 3 consists of two boxplots, (a) and (b), representing the data from these two different samples. Identify, giving a reason, which of the boxplots corresponds to which sample skewness.

[2]

(a)



-2.45 having values are highly non symmetrical

(b)



-0.11

Figure 3

Question 6

Calculate the sample mean and sample variance for the following data sample.

[2]

1 4 4 5 6

$$\bar{S} = 1.871 \Rightarrow S^2 = 3.5$$

$$Sc = 4$$