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so many fake sites. this is the first one which worked! Many thanks

The teacher takes another 4 random samples of size 20 and they contain 1, 3, 1 and 4 pupils that read the Deano.

(b) By combining all 5 samples and using a suitable approximation test, at the 5% level of significance, whether or not this provides evidence that the percentage of pupils in the school that read the Deano is different from 20%. (8)

$$H_0: p = 0.2$$

$$H_1: p \neq 0.2$$

$$X \sim B(100, 0.2)$$

$$\mu = 100 \times 0.2 = 20$$

$$\sigma^2 = 100 \times 0.2 \times 0.8 = 16$$

$$Y \sim N(20, 4^2)$$

$$9 + 1 + 3 + 1 + 4 = 18$$

$$P(X \leq 18) \approx P(Y \leq 18.5)$$

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