

4. A bag contains a large number of balls, each with one of the numbers 1, 2 or 5 written on it in the ratio 2:3:4 respectively.

A random sample of 3 balls is taken from the bag.

The random variable B represents the range of the numbers written on the balls in the sample.

(i) Find $P(B = 4)$

(ii) Find the sampling distribution of B .

(10)

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