

3 Andy has 4 red socks and 8 black socks in his drawer. He takes 2 socks at random from his drawer.

(i) Find the probability that the socks taken are of different colours. [2]

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The random variable X is the number of red socks taken.

(ii) Draw up the probability distribution table for X . [3]

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(iii) Find $E(X)$. [1]

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