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2013 5 A bag contains 4 red marbles and 6 blue marbles. Three marbles are selected at random without replacement.

re selected at **1**

What is the probability that at least one of the marbles selected is red?

(A)
$$\frac{1}{6}$$

(B)
$$\frac{1}{2}$$

(C)
$$\frac{5}{6}$$

(D)
$$\frac{29}{30}$$

 C

P(at least one is red) = 1 - P(none red)
=
$$1 - \frac{6}{10} \times \frac{5}{9} \times \frac{4}{8}$$

= $\frac{5}{6}$

State Mean: **0.74**

^{*} These solutions have been provided by *projectmaths* and are not supplied or endorsed by BOSTES.