



Want more revision exercises? Get [MathsFit](#) for \$2.95/topic - New from projectmaths

**2015 4** The probability that Mel's soccer team wins this weekend is  $\frac{5}{7}$ . **1**

The probability that Mel's rugby league team wins this weekend is  $\frac{2}{3}$ .

What is the probability that neither team wins this weekend?

- (A)  $\frac{2}{21}$                       (B)  $\frac{10}{21}$                       (C)  $\frac{13}{21}$                       (D)  $\frac{19}{21}$

**A**

$$P(\text{Soccer team does not win}) = 1 - \frac{5}{7} = \frac{2}{7}$$

$$P(\text{Rugby League team does not win}) = 1 - \frac{2}{3} = \frac{1}{3}$$

$$\begin{aligned} P(\text{neither team wins}) &= \frac{2}{7} \times \frac{1}{3} \\ &= \frac{2}{21} \end{aligned}$$

State Mean:  
**0.78**

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.