

Pearson Edexcel A Level Mathematics 9MA0

Statistics – Probability

Time allowed: 45 minutes

School: www.CasperYC.club

Name:

Teacher:

How I can achieve better:

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Question	Points	Score
1	10	
2	8	
3	11	
4	10	
5	11	
Total:	50	

Last updated: January 11, 2026



1. The table below shows the number of gold, silver and bronze medals won by two teams in an athletics competition.

	Gold	Silver	Bronze
Team A	29	17	18
Team C	21	23	17

The events G , S and B are that a medal is gold, silver or bronze respectively. Let A be the event that team A won a medal and C team C won a medal. A medal winner is selected at random.

Find

- (a) $\Pr(G)$ [2]
- (b) $\Pr([A \cap S]')$ [2]
- (c) Explain, showing your working, whether or not events S and A are statistically independent. [2]
Give reasons for your answer.
- (d) Determine whether or not events B and C are mutually exclusive. Give a reason for your answer. [2]
- (e) Given that 30% of the gold medal winners are female, 60% of the silver medal winners are female and 40% of the bronze medal winners are female, find the probability that a randomly selected medal winner is female. [2]

Total: 10



