
GCSE Mathematics

Mutually Exclusive Events

Mark Scheme - Foundation Tier | Grades 4-5

M = method mark, A = accuracy mark (dependent on the preceding M mark), B = independent mark.

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Edexcel-style questions

Q1 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	3 is not an even number	M1
(a)	Yes - both cannot happen on the same roll	A1

Q2 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$0.3 + 0.25$	M1
(a)	0.55	A1

Q3 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$0.7 - 0.45$	M1
(a)	0.25	A1

Q4 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	2 out of 10 are less than 3, 2 out of 10 are greater than 8	M1
(a)	$\frac{4}{10} = \frac{2}{5}$	A1

Q5 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$0.2 + 0.15 + 0.3$	M1
(a)	0.65	A1

AQA-style questions

Q6 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	6 is both a multiple of 3 and an even number	M1
(a)	No - both could happen on the same roll	A1

Q7 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$0.4 + 0.35$	M1
(a)	0.75	A1

Q8 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$0.9 - 0.55$	M1
(a)	0.35	A1

Q9 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	1 out of 6 is a 1, 1 out of 6 is a 6	M1
(a)	$\frac{2}{6} = \frac{1}{3}$	A1

Q10 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$0.1 + 0.25 + 0.4$	M1
(a)	0.75	A1

OCR-style questions

Q11 Grade 4 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	no score can be both less than 3 and more than 4	M1
(a)	Yes - both cannot happen on the same roll	A1

Q12 Grade 4 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{1}{5} + \frac{2}{5}$	M1
(a)	$\frac{3}{5}$	A1

Q13 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{5}{6} - \frac{1}{3}$	M1
(a)	$\frac{1}{2}$	A1

Q14 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	3 out of 12 are multiples of 4, 2 out of 12 are multiples of 5	M1
(a)	$\frac{5}{12}$	A1

Q15 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{1}{6} + \frac{1}{3} + \frac{1}{4}$	M1
(a)	$\frac{3}{4}$	A1

Teachably-style questions

Q16 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	3 and 5 are both odd and prime	M1
(a)	No - both could happen on the same roll	A1

Q17 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$0.18 + 0.47$	M1
(a)	0.65	A1

Q18 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$0.82 - 0.37$	M1
(a)	0.45	A1

Q19 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	4 out of 8 are odd, 2 out of 8 are multiples of 4	M1
(a)	$\frac{6}{8} = \frac{3}{4}$	A1

Q20 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$0.05 + 0.6 + 0.15$	M1
(a)	0.8	A1

END OF PAPER

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