
GCSE Mathematics

Conditional Probability

Mark Scheme - Higher Tier | Grades 7-9

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

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Edexcel-style questions

Q1 Grade 7 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$0.15 \div 0.5$	M1
(a)	0.3	A1

Q2 Grade 7 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$6 / (6 + 9)$	M1
(a)	$\frac{6}{15} = \frac{2}{5}$	A1

Q3 Grade 8 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	21 / 24	M1
(a)	$\frac{7}{8}$	A1

Q4 Grade 9 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$P(A B) = P(A)$	M1
(a)	Yes - A and B are independent	A1

Q5 Grade 9 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	0.6×0.75	M1
(a)	0.45	A1

AQA-style questions

Q6 Grade 7 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$0.2 \div 0.8$	M1
(a)	0.25	A1

Q7 Grade 8 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$4 / (4 + 12)$	M1
(a)	$\frac{4}{16} = \frac{1}{4}$	A1

Q8 Grade 8 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	18 / 25	M1
(a)	$\frac{18}{25}$	A1

Q9 Grade 9 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$P(A B) \neq P(A)$	M1
(a)	No - A and B are not independent	A1

Q10 Grade 9 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	0.8×0.25	M1
(a)	0.2	A1

OCR-style questions

Q11 Grade 8 OCR style

Total: 2

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

Q12 Grade 8 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$6 / (6 + 10)$	M1
(a)	$\frac{6}{16} = \frac{3}{8}$	A1

Q13 Grade 9 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$8 / 25$	M1
(a)	$\frac{8}{25}$	A1

Q14 Grade 9 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$P(A B) = P(A)$	M1
(a)	Yes - A and B are independent	A1

Q15 Grade 9 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	0.5×0.6	M1
(a)	0.3	A1

Teachably-style questions

Q16 Grade 8 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$0.28 \div 0.7$	M1
(a)	0.4	A1

Q17 Grade 8 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$5 / (5 + 9)$	M1
(a)	$\frac{5}{14}$	A1

Q18 Grade 9 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$19 / 25$	M1
(a)	$\frac{19}{25}$	A1

Q19 Grade 9 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$P(A B) \neq P(A)$	M1
(a)	No - A and B are not independent	A1

Q20 Grade 9 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	0.9×0.4	M1
(a)	0.36	A1

END OF PAPER

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