
GCSE Mathematics

Tree Diagrams

Mark Scheme - Foundation Tier | Grades 5-7

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

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Edexcel-style questions

Q1 Grade 5 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	$1 - 0.35$	M1
(a)	0.65	A1

Q2 Grade 5 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	0.4×0.4	M1
(a)	0.16	A1

Q3 Grade 6 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	$0.4 \times 0.6 + 0.6 \times 0.4$	M1
(a)	0.48	A1

Q4 Grade 7 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	$1 - \frac{4}{7}$	M1
(a)	$\frac{3}{7}$	A1

Q5 Grade 7 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	$\frac{5}{8} \times \frac{4}{7}$	M1
(a)	$\frac{5}{14}$	A1

AQA-style questions

Q6 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$1 - 0.2$	M1
(a)	0.8	A1

Q7 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	0.7×0.7	M1
(a)	0.49	A1

Q8 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$0.7 \times 0.3 + 0.3 \times 0.7$	M1
(a)	0.42	A1

Q9 Grade 7 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$1 - \frac{5}{9}$	M1
(a)	$\frac{4}{9}$	A1

Q10 Grade 7 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{6}{10} \times \frac{5}{9}$	M1
(a)	$\frac{1}{3}$	A1

OCR-style questions**Q11** Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$1 - 0.6$	M1
(a)	0.4	A1

Q12 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	0.3×0.7	M1
(a)	0.21	A1

Q13 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$1 - 0.7 \times 0.7$	M1
(a)	0.51	A1

Q14 Grade 7 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$1 - \frac{6}{9}$	M1
(a)	$\frac{1}{3}$	A1

Q15 Grade 7 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$\frac{7}{10} \times \frac{6}{9}$	M1
(a)	$\frac{7}{15}$	A1

Teachably-style questions

Q16 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$1 - 0.15$	M1
(a)	0.85	A1

Q17 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	0.05×0.05	M1
(a)	0.0025	A1

Q18 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$0.1 \times 0.9 + 0.9 \times 0.1$	M1
(a)	0.18	A1

Q19 Grade 7 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$1 - \frac{3}{9}$	M1
(a)	$\frac{2}{3}$	A1

Q20 Grade 7 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{4}{10} \times \frac{6}{9} + \frac{6}{10} \times \frac{4}{9}$	M1
(a)	$\frac{8}{15}$	A1

END OF PAPER

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