PROBABILITY TREE

Pearson Edexcel - Monday 8 June 2020 - Paper 3 (Calculator) Higher Tier

1.

5 (a)	$\frac{1}{3}, \frac{2}{3}, \frac{1}{3},$	$\frac{2}{3}, \frac{1}{3}, \frac{2}{3}$ B2 (B1	six fully correct probabilities at least 2 correct probabilities)	Accept any equivalent fraction, decimal form 0.33(3) and 0.66(6) or 0.67 or percentage form 33(.3)% and 66(.6)% or 67%
(b)	2/9	MI	for $\frac{1}{3} \times \frac{2}{3}$ oe or ft probabilities from diagram	
		Al	for $\frac{2}{9}$ oe	Accept any equivalent fraction, decimal form 0.22(2) or percentage form 22(.2)%

Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Higher Tier

2.

10	(a)	Diagram completed	M1	for 1 – 0.15 (=0.85)	
		0.85	A1	fully correct diagram	
		0.15, 0.85, 0.15, 0.85			
		0.02			
	(b)	0.2775	M1	for one correct product eg 0.15×0.15 (= 0.0225) or 0.15×0.85 (= 0.1275) or 0.85×0.85 (= 0.7225)	ft their diagram provided probabilities are less than 1
			M1	for a complete method eg "0.0225" + 2×"0.1275" OR 1 – "0.7225" oe	ft their diagram provided probabilities are less than 1
			A1	oe, eg 111 400	

Pearson Edexcel - Thursday 7 June 2018 - Paper 2 (Calculator) Higher Tier

3.

15 (a)	0.55, 0.67, 0.33,	B1	for 0.55 in correct position	Can be seen as fractions or percentages
(b)	0.55, 0.67, 0.33, 0.35, 0.65	B1 B1 M1 A1	for 0.55 in correct position for the branches for the second game correct for one correct product, eg 0.45 × "0.33" (=0.1485) or "0.55" × "0.35" (=0.1925) or 0.45 × "0.67" (=0.3015) or "0.55" × "0.65" (=0.3575) for correct method eg (0.45 × "0.33") + ("0.55" × "0.35") or 1 - (0.45 × "0.67") - ("0.55" × "0.65") answer in range 0.34 - 0.341 oe	Can be seen as fractions or percentages Follow through acceptable for method marks from their tree in part (a) providing probabilities are less than 1. Accept fractional equivalents

Pearson Edexcel - Tuesday 12 June 2018 - Paper 3 (Calculator) Higher Tier

4	Probabilities should sum to 1	C1	for stating that the probabilities should total 1 eg 0.25 should be 0.35	,
	0.35 and 0.65 reversed	C1	for recognising that the 0.35 and 0.65 in the first branches for the 2nd throw should be reversed eg, "for the second throw, the probability it lands on 4 should be 0.65"	Can be shown on the diagram

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Higher Tier

5.

12	48	M1	for 0.25×0.6 (= 0.15) or 0.75×0.4 (= 0.3)
		M1	for 0.25×0.6 (= 0.15) and 0.75×0.4 (= 0.3) or for 24 ÷ "0.15" (= 160)
		A1	cao

Pearson Edexcel - Thursday 8 June 2017 - Paper 2 (Calculator) Higher Tier

6.

12	(a)	comment	CI	for comment e.g. incorrect denominator for the 2nd student or probabilities for 2 nd student do not add up to 1
	(b)	No (supported)	CI	for "no" with supporting evidence, e.g. probabilities should be multiplied together or 0.4×0.25

Pearson Edexcel - Specimen Papers Set 1 - Paper 2 (Calculator) Higher Tier

7.

11 (a)	0.49	M1 A1	for 0.7 × 0.7 for 0.49 oe
(b)	0.51	M1 A1	for a correct process, eg. $1 - "0.49"$ or $0.7 \times 0.3 + 0.3 \times 0.7 + 0.3 \times 0.3$ for 0.51 oe

Pearson Edexcel - Sample Paper 2 - (Calculator) Higher Tier

8.

12 (a)	0.4,0.6	B1	correctly placing probs for light A eg 0.4, 0.6
	0.3,0.7,0.8,0.2	В1	correctly placing probs for light B eg 0.3, 0.7, 0.8, 0.2
(b)	B with correct	P1	(ft) eg 0.4×0.3 or 0.6×0.8 or $1-(0.28+0.12)$
	probabilities	P1	both sets of correct probability calculations
		C1	Correct interpretation of results with correct comparable results

Pearson Edexcel - Thursday 26 May 2016 - Paper 1 (Non-Calculator) Higher Tier

21	(a)		0.7	3	B1 for 0.2, 0.8 oe
		0.2	0.3		B1 for 0.7, 0.3 oe
		0.8	0.05		B1 for 0.05, 0.95 oe
			0.95		
	(b)		0.04	2	M1 for "0.8" × "0.05"
					Al oe

Pearson Edexcel - Friday 7 November 2014 - Paper 2 (Calculator) Higher Tier

10.

19	(a)	0.3 0.3, 0.7, 0.3	2	B1 for 0.3 as first spin oe B1 for 0.3, 0.7, 0.3 in correct positions for second spin oe
	(b)	0.42	3	M1 for '0.3' × '0.7' or 0.7 × '0.3' (=0.21) M1 for '0.3' × '0.7 + 0.7 × '0.3 (OR M2 for 1 - 0.7 ² - 0.3 ²) A1 for 0.42 oe

Pearson Edexcel - Monday 9 June 2014 - Paper 1 (Non-Calculator) Higher Tier

11.

22	6.3	 		
23	(a)	$\frac{3}{10}, \frac{6}{9}, \frac{3}{9}, \frac{7}{9}, \frac{2}{9}$	2	B1 for $\frac{3}{10}$ on LH yellow branch
		100 Sec. 101 Sec. 104		B1 for $\frac{6}{9}$, $\frac{3}{9}$, $\frac{7}{9}$, $\frac{2}{9}$ correct on tree diagram
	(b)	$\frac{48}{90}$	3	M1 for $\frac{7}{10} \times "\frac{3}{9}"$ or " $\frac{3}{10}" \times "\frac{7}{9}$ " or " $\frac{3}{10}" \times "\frac{2}{9}$ "
		5.70		M1 for $\frac{7}{10} \times "\frac{3}{9}" + "\frac{3}{10}" \times "\frac{7}{9}" + "\frac{3}{10}" \times "\frac{2}{9}"$
				A1 for $\frac{48}{90}$ oe
				OR
				M1 for $\frac{7}{10} \times "\frac{6}{9}"$
				M1 for $1 - \frac{7}{10} \times "\frac{6}{9}"$
				A1 for $\frac{48}{90}$ oe
				70

Pearson Edexcel - Monday 11 June 2012 - Paper 1 (Non-Calculator) Higher Tier

12.

19	(a)		0.6	2	B1 for 0.6 in correct position on tree diagram
			0.7, 0.3, 0.7		B1 for 0.7, 0.3, 0.7 in correct positions on tree
					diagram
	(b)	0.4 × 0.3 =	0.12	2	M1 for 0.4×0.3 oe or a complete alternative method ft from tree diagram A1 for 0.12 oe

Pearson Edexcel - Friday 2 March 2012 - Paper 3 (Non-Calculator) Higher Tier

							-					40	
18	(a)	Corr	rect p	prob	S.						Correct probs.	2	B1 $\frac{3}{8}$ on 1 st branch B1 $\frac{3}{7}$, $\frac{5}{7}$, $\frac{2}{7}$ correctly placed
													7,7,7
	(b)	RG,	or C	iR							30	3	M1 (ft from diag) for any one correct product
		$\frac{5}{8}$ ×	$\frac{3}{7} + \frac{3}{8}$	$\times \frac{5}{7}$	-						$\frac{30}{56}$		M1 (ft from diag) for $\frac{5}{8} \times \frac{3}{7} + \frac{3}{8} \times \frac{5}{7}$ oe or
		OR											$1 - \left(\frac{5}{8} \times \frac{4}{7} + \frac{3}{8} \times \frac{2}{7}\right)$ oe
		A fu	ıll sa	mpl	e sp	ace							A1 $\frac{30}{56}$ oe
			R	R	R	R	R	G	G	G			OR
		R	_	8 1				X	X	X			M1 for a complete 8 by 8 or 8 by 7 table
		R		-		10		X	X	X			M1 for all RG and GR identified
		R			-			X	X	X			A1 $\frac{30}{30}$ oe
		R				-		X	X	X			56
		R					-	X	X	X			1470172 608675 M 50
		G		X		X	X	-		-			SC with replacement
		G	X	X	X	X	X	50 4	-				$M1 = \frac{5}{2} \times \frac{3}{2}$
		G	X	X	X	X	X	GC 10	- 10				8 8
													M1 $\frac{5}{8} \times \frac{3}{8} + \frac{3}{8} \times \frac{5}{8}$ or $\frac{30}{64}$
													A0
													SC: If no working then B1 for $\frac{30}{64}$

Pearson Edexcel - Wednesday 9 November 2011 - Paper 3 (Non-Calculator) Higher Tier

14.

22 (a)	Probability tree diagram	$\frac{6}{10}$, $\frac{4}{10}$	2	B1 $\frac{6}{10}$, $\frac{4}{10}$ oe on first two branches
		$\frac{8}{11}$, $\frac{3}{11}$, $\frac{7}{11}$, $\frac{4}{11}$		B1 $\frac{8}{11}$, $\frac{3}{11}$, $\frac{7}{11}$, $\frac{4}{11}$ on remaining branches
(b)	$\frac{6}{10} \times \frac{8}{11} + \frac{4}{10} \times \frac{4}{11}$ $= \frac{48}{110} + \frac{16}{110}$ $= \frac{64}{110} = \frac{32}{55}$	64 110	4	M3 $\frac{6}{10} \times \frac{8}{11} + \frac{4}{10} \times \frac{4}{11}$ oe (M2 $\frac{6}{10} \times \frac{8}{11}$ or $\frac{4}{10} \times \frac{4}{11}$ oe or $\frac{6}{10} \times \text{their } \frac{8}{11} + \frac{4}{10} \times \text{their } \frac{4}{11}$ oe) (M1 their $\frac{6}{10} \times \text{their } \frac{8}{11}$ or their $\frac{4}{10} \times \text{their } \frac{4}{11}$ oe provided each component < 1) A1 $\frac{64}{110}$ oe

Pearson Edexcel - Thursday 5 November 2009 - Paper 3 (Non-Calculator) Higher Tier

19 (a)	$\frac{5}{7}, \frac{2}{7}; \frac{5}{7}, \frac{2}{7}; \frac{5}{7}, \frac{2}{7}$		2	B1 for $\frac{5}{7}$, $\frac{2}{7}$ on LH branch B1 for $\frac{5}{7}$, $\frac{2}{7}$, $\frac{5}{7}$, $\frac{2}{7}$ on RH branch
(b)	$\frac{5}{7} \times \frac{2}{7} + \frac{5}{7} \times \frac{2}{7}$ $= \frac{10}{49} + \frac{10}{49} = \frac{20}{49}$	20 49	3	M1 for " $\frac{5}{7} \times \frac{2}{7}$ " alone M1 for addition of two products from correct braches eg " $\frac{5}{7} \times \frac{2}{7} + \frac{5}{7} \times \frac{2}{7}$ " A1 $\frac{20}{49}$ oe Alternative: M2 for an attempt to evaluate $1 - \frac{5}{7} \times \frac{5}{7} - \frac{2}{7} \times \frac{2}{7}$ A1 cao SC $\frac{5}{7} \times \frac{2}{6} + \frac{2}{7} \times \frac{5}{6} = \frac{20}{42}$ gets B2

OCR GSCE – Thursday 5 November 2020 – Paper 5 (Non-Calculator) Higher Tier

16.

8	For Monday, does not rain should be 1 – 0.55 oe For Tuesday, 0.25 is incorrectly placed on the does not rain branch oe A pair of branches is missing for Tuesday after does not rain on Monday oe	3	B1 for each	After each correct statement isw eg 0.55 + 0.35 does not equal 1 Monday not rain should be 0.45 eg For Tuesday the probabilities are placed the wrong way around 0.25 should be on the rain branch eg There should be two more branches for Tuesday
				See AG

OCR GSCE – Thursday 6 June 2019 – Paper 5 (Non-Calculator) Higher Tier

17.

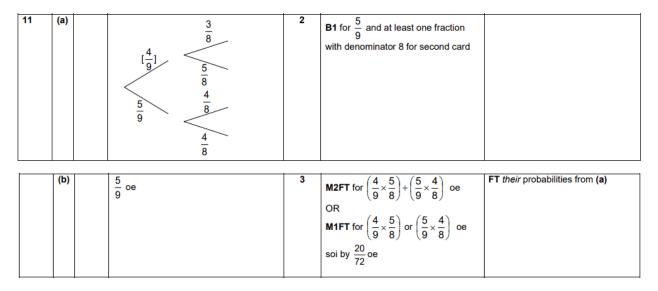
6	(a)	$\frac{3}{7}$, $\frac{3}{7}$, $\frac{4}{7}$, $\frac{3}{7}$ correctly placed	2	M1 for 2 or 3 probabilities correctly placed	Accept equivalent fractions, decimals or %s (3 figures needed for dec or %)
	(b)	$\frac{16}{49}$ oe	2	M1 for $\frac{4}{7} \times \frac{4}{7}$ oe	isw cancelling/conversion to other forms

OCR GSCE – Monday 12 November 2018 – Paper 6 (Calculator) Higher Tier

7	(a)		9	2	M1 for 15 × 0.62, possibly soi by 9.3 If 0 scored, then SC1 for 15 × 0.41	Condone "9 or 10" as final answer for 2 marks if correct working is shown.
					leading to 6 as final answer	
	(b)	(i)	0.41 0.59 0.41 0.59	2	B1 for 0.38 and at least one 0.59 seen on correct branches	
		(ii)	0.5216 or $\frac{326}{625}$	3	M2FT for (0.62 × their 0.59) + (their 0.38 × 0.41) oe	Condone 0.52 or 0.522 as final answer provided nfww
					M1FT for (0.62 × <i>their</i> 0.59) soi by 0.3658 oe or (<i>their</i> 0.38 × 0.41) soi by 0.1558 oe	
					1	

OCR GSCE – Wednesday 8 November 2017 – Paper 6 (Calculator) Higher Tier

19.



OCR GSCE – Thursday 25 May 2017 – Paper 4 (Calculator) Higher Tier

13	(a)	[0].4, [0].3 and [0].8 oe in the correct places	1		Accept equivalent fractions or percentages with % sign in each part and FT their tree diagram only if (a) scores 0 marks
	(b)	[0].4 or $\frac{2}{5}$ oe	1	FT their tree diagram	accept 40%: condone $\frac{4}{1}$, penalise wrong form once eg 4 : 10, 4 in 10
	(c)	[0].7 or $\frac{7}{10}$ oe	1		accept 70%
	(d)	[0].08 or $\frac{2}{25}$ oe	2	FT their tree diagram for 2 marks M1 for their[0].4 × [0].2	accept 8% and working may be in the tree
	(e)	[0].82 or $\frac{41}{50}$ oe	3	FT their tree diagram for 3 marks M2 for 1 – [0].6 × their [0].3 or [0].6 × [0].7 + their [0].4 × their [0].8 + their [0].4 × [0].2 oe soi or	accept any correct method and working may be in tree implied by 1 - [0].18 implied by [0].42 + [0].32 + [0].08
				M1 for [0].6 × their [0].3 or two of [0].6 × [0].7, their [0].4 × their [0].8, their [0].4 × [0].2 oe soi	implied by [0].18 implied by two of [0].42, [0].32, [0].08

AQA GSCE – Tuesday 21 May 2019 – Paper 1 (Non - Calculator) Higher Tier 21.

6(a)	$\frac{1}{6}$ on '1' and $\frac{1}{3}$ or $\frac{2}{6}$ on '2 or 3' and $\frac{1}{2}$ on each of 'Odd' and 'Even'	B2	oe fraction, decimal or percentage B1 $\frac{1}{6} \text{ on '1' and } \frac{1}{3} \text{ or } \frac{2}{6} \text{ on '2 or 3'}$ or $\frac{1}{2} \text{ on each of 'Odd' and 'Even'}$ or all correct unsimplified probabilities with one or more simplification errors $\text{eg } \frac{3}{6} \text{ on 'Odd' simplified to } \frac{1}{3}$
	Add	Guidance	
	Accept decimals or percentages rour least 2 significant figures	uncated correctly to at	
	Only withhold a mark for simplification awarded	B2 would otherwise be	
	Ignore extra branches added		
	Ignore attempts to work out combined tree diagram	ities to the right of the	
	If an answer line is blank, the student elsewhere on the branch	t may hav	e written their answer

	Alternative method 1: P(1) + P(4, 5	or 6) × P	P(Odd)				
	$\frac{1}{2}$ × their $\frac{1}{2}$ or $\frac{1}{4}$	M1	oe				
	their $\frac{1}{4}$ + their $\frac{1}{6}$	M1dep	ое				
	$(P(win) =) \frac{10}{24} \text{ or } \frac{5}{12}$	A1ft	oe ft their tree diagram				
	Lose (and P(Lose) = $\frac{14}{24}$ or $\frac{7}{12}$ oe)	A1ft	ft correct decision for their $\frac{5}{12}$ (and their $\frac{7}{12}$) with M2 scored				
6(b)	Alternative method 2: 1 - P(2 or 3) - P(4, 5 or 6) × P(Even)						
	$\frac{1}{2}$ × their $\frac{1}{2}$ or $\frac{1}{4}$	M1	ое				
	their $\frac{1}{4}$ + their $\frac{1}{3}$	M1dep	ое				
	or P(lose) = $\frac{7}{12}$	штаор	ft their tree diagram				
	$(P(win) =) \frac{10}{24} \text{ or } \frac{5}{12}$	A1ft	oe ft their tree diagram				
	Lose (and P(Lose) = $\frac{14}{24}$ or $\frac{7}{12}$ oe)	A1ft	ft correct decision for their $\frac{5}{12}$ (and their $\frac{7}{12}$) with M2 scored				
	Additional Guidance is on the follo	wing pag	je				

	Additional Guidance	
	Check the tree diagram for working	
	Any 'their' or ft probability must be > 0 and < 1 for marks to be awarded	
	For the second A1ft, the ft can be from an incorrect tree (which may score 4 marks) or an arithmetic error (which scores 3 marks, M1M1A0A1ft)	
	Accept equivalent fractions or decimals within calculations and equivalent fractions, decimals or percentages for final probabilities	
	Accept decimals or percentages rounded or truncated correctly to at least 2 significant figures	
6(b)	Condone $\frac{1}{2}$ × their $\frac{1}{2}$ as part of a longer, incorrect multiplication	
cont	$eg \frac{1}{2} \times \frac{1}{2} \times \frac{1}{6}$	M1M0A0A0
	Condone decimals used within fractions	
	eg P(Win) = $\frac{2.5}{6}$	at least M1M1A1
	For the method marks, condone incorrect mathematical notation eg $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4} + \frac{1}{6} = \dots$	at least M1M1 (may go on to score 3 or 4 marks)
	For the second A1ft, if the student gives a value for P(Lose), their P(Win) + their P(Lose) must equal 1	
	However, allow a comparison to $\frac{1}{2}$ unless it is clearly an incorrect value for P(Lose)	

AQA GSCE – Thursday 7 June 2018 – Paper 2 (Calculator) Higher Tier

	$\frac{1}{3}$ or $\frac{2}{6}$ or 0.33 or 33.()% on each top branch and $\frac{2}{3}$ or $\frac{4}{6}$ or 0.66 or 0.67 or 66.()% or 67% on each bottom branch	action, decimal		
	Ado	ditional G	uidance	
	Decimals must have at least 2 decima or 0.7	do not accept 0.3 or 0.6		
	Only accept the percentages shown, d			
	Ignore working around the edge of the			
11(a)	Less than 3 $\frac{\frac{1}{3}}{\frac{2}{3}}$ 3 or more	$\frac{\frac{1}{3}}{\frac{2}{3}}$	Less than 3 3 or more Less than 3	B1

	1/9 or 0.11 or 11.()%	B1						
	Additional Guidance							
11(b)	Ignore probability words such as 'unli	ens'						
	Accept equivalent answers eg $\frac{2}{18}$, $\frac{3}{27}$, $0.\dot{1}$							
	Do not accept 0.1 or 10%							

	Alternative method 1 Probabilities on branches in (a) all correct		
	$\frac{1}{3} \times \frac{2}{3}$ or $\frac{2}{3} \times \frac{1}{3}$ or $\frac{2}{9}$	M1	oe accept 0.33 for $\frac{1}{3}$ accept 0.66 or 0.67 for $\frac{2}{3}$
11(0)	4/9 or 0.44 or 44.()%	A1	
11(0)	11(c) Alternative method 2 Probabilities on branches in (a) all correct		
	$1 - (\frac{1}{3} \times \frac{1}{3}) - (\frac{2}{3} \times \frac{2}{3})$	M1	oe accept 0.33 for $\frac{1}{3}$ accept 0.66 or 0.67 for $\frac{2}{3}$
	4/9 or 0.44 or 44.()%	A1	

Mark scheme continues on the next page

	Alternative method 3 Probabilities	on branc	ches in (a) not all correct
11(c)	$\frac{1}{3}$ × their $\frac{2}{3}$ where their $\frac{2}{3}$ must be for 2nd dice 3 or more or their $\frac{2}{3}$ × their $\frac{1}{3}$ where their $\frac{2}{3}$ must be for 1st dice 3 or more and their $\frac{1}{3}$ must be for 2nd dice less than 3	M1	oe accept 0.33 for $\frac{1}{3}$ accept 0.66 or 0.67 for $\frac{2}{3}$ their fractions must be between 0 and 1
cont	4/9 or 0.44 or 44.()%	A1ft	ft their fractions
	Alternative method 4 Probabilities	on branc	ches in (a) not all correct
	$1 - (\frac{1}{3} \times \frac{1}{3}) - (\text{their } \frac{2}{3} \times \text{their } \frac{2}{3})$ where their $\frac{2}{3}$ must be for 1st dice 3 or more and their $\frac{2}{3}$ must be for 2nd dice 3 or more	M1	accept 0.33 for $\frac{1}{3}$ accept 0.66 or 0.67 for $\frac{2}{3}$ their fractions must be between 0 and 1
	4/9 or 0.44 or 44.()%	A1ft	ft their fractions

Additional guidance continues on the next page

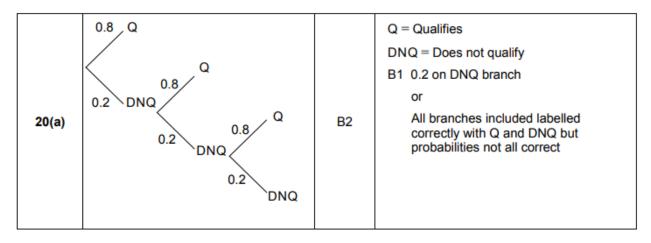
	Additional Guidance			
	If probabilities on branches in (a) are all $\frac{1}{3}$	M0A0		
44(2)	Decimals must have at least 2 decimal places so do not accept 0.3 or 0.6 or 0.7			
11(c) cont	Ignore any incorrect cancelling or change of form (fraction, decimal or percentage)			
	$\frac{1}{3} \times \frac{2}{3} \times \frac{2}{3} \times \frac{1}{3}$			
	$\frac{1}{3} \times \frac{2}{3}$ and $\frac{1}{3} \times \frac{1}{3}$ without selecting $\frac{1}{3} \times \frac{2}{3}$ is choice	МО		

AQA GSCE – Wednesday 25 May 2017 – Paper 1 (Non - Calculator) Higher Tier 23.

16(a)	$\frac{2}{5}$ Even and $\frac{3}{5}$ Odd	B1	oe fractions, decimals or percentages
	Two branches from Even labelled Red $\frac{5}{6}$ Green $\frac{1}{6}$	B1	oe fractions, decimals or percentages Branches from Odd is B0 Allow equivalent labelling eg R and G Green and Not Green
	Additional Guidance		
	In decimals, allow for $\frac{5}{6}$ and $\frac{1}{6}$		
	0.83 and 0.17 or 0.833 and 0.167 or 0.834 and 0.166 or 0.84 and 0.16 or better truncation or rounding (sum of pair must equal 1)		
	In percentages, allow for $\frac{5}{6}$ and $\frac{1}{6}$		
	83% and 17% or 83.3% and 16.7% or 83.4% and 16.6% or 84% and 16% or better truncation or rounding (sum of pair must equal 100%)		
	Ignore any attempts to combine probabilities to the right of the tree diagram		

16(b)	their $\frac{2}{5}$ × their $\frac{1}{6}$	M1	their P(Even) × their P(Green) ft from (a) if 0 < both probabilities < 1	
	$\frac{2}{30}$ or $\frac{1}{15}$	A1ft	oe fraction or decimal ft from (a) if 0 < both probabilities <	
	Additional Guidance			
	Allow 0.06 or 6% or better tr	uncation or roundin	g or 0.07 or 7% for $\frac{2}{30}$	
	If the dice branches are not labelled there is no ft from (a)			
	If (a) has no attempt or an incorrect answer full marks can still be gained here for correct working (and answer)			
	Ignore further attempts to simplify or convert to a decimal or percentage after a correct fraction is seen			
	eg $\frac{2}{30} = \frac{1}{10}$ or $\frac{4}{60} = 0.1$	65	N.	11A1

AQA GSCE – Sample Paper 1 (Non - Calculator) Higher Tier 24.



20(b)	Alternative method 1		
	their 0.2 × their 0.8 or 0.16	M1	Look on tree diagram for working
	0.96	A1	
	Alternative method 2		
	(their 0.2) ² or 0.04	M1	Look on tree diagram for working
	0.96	A1	