

Calculating probabilities

Introduce

Q1 41% or equivalent

Q2a	Colour	Red	Green	Blue
	Probability	0.25	0.3	0.45

Q2b 20

Q3a Amara's; she did more trials.

Q3b $\frac{27}{70}$ or equivalent

Q4a	Letter	A	B	C	D
	Probability	0.05	0.25	0.35	0.35

Q4b 0.6 or equivalent

Expected outcomes

Introduce

Q1 77

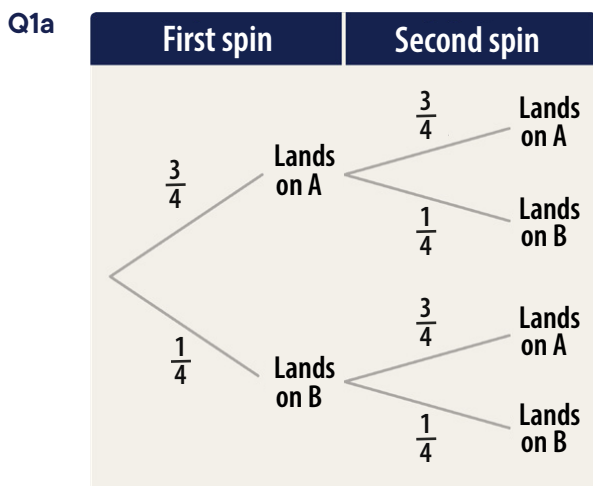
Q2 135

Q3 44

Q4 £270

Tree diagrams

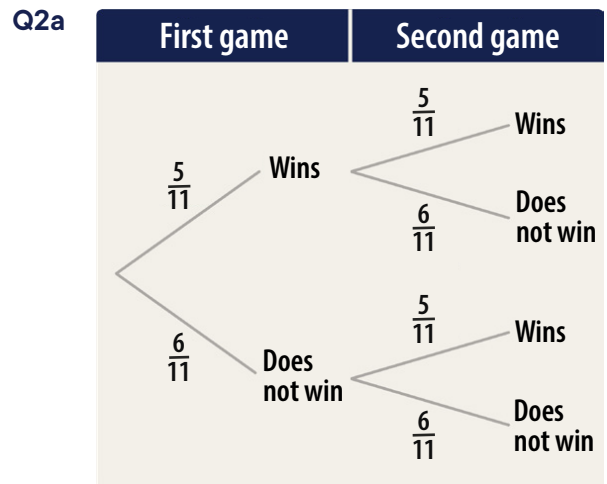
Introduce



Q1b $\frac{9}{16}$ or equivalent

Tree diagrams

Introduce



Q2b $\frac{60}{121}$ or equivalent

Set notation

Introduce

Q1a 9

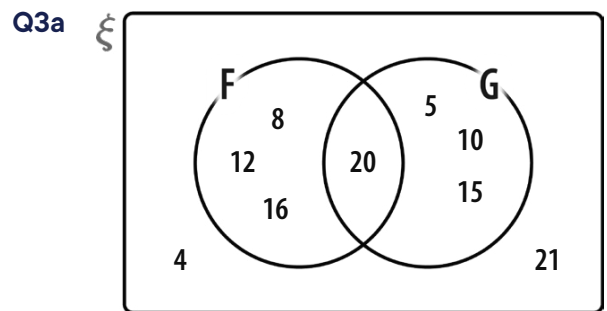
Q1b 1

Q2a 21

Q2b 4

Q2c 10

Q2d 8



Q3b 4, 21

Q3c $\frac{2}{9}$ or equivalent

Q3d $\frac{7}{9}$ or equivalent

Mixed topics

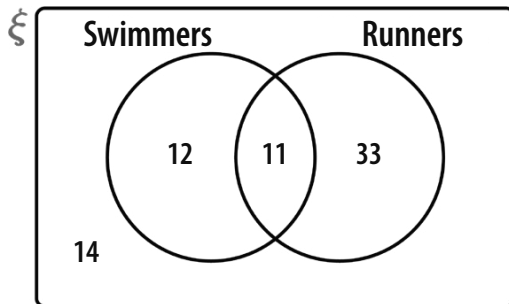
Deepen

Q1

Colour	Probability	Number of Marbles
Green	10%	2
Purple	20%	4
Red	15%	3
Orange	55%	11

Q2 200

Q3

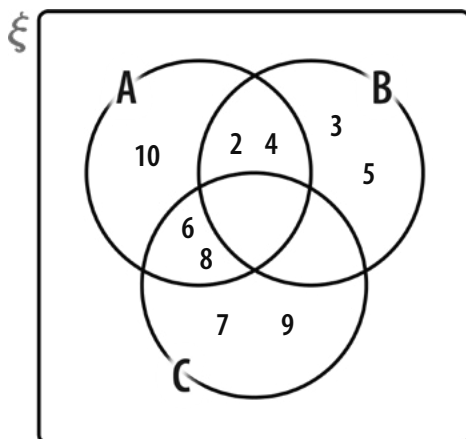


Q4 0.25 or equivalent

Q5 $\frac{13}{49}$

Q6 7

Q7a



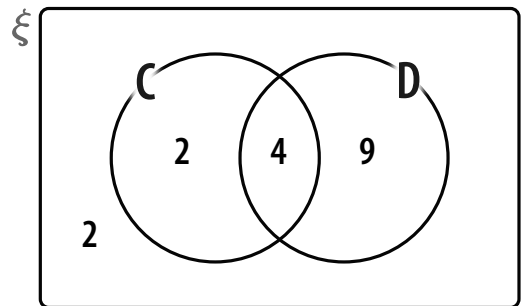
Q7b $\frac{2}{9}$ or equivalent

Mixed topics

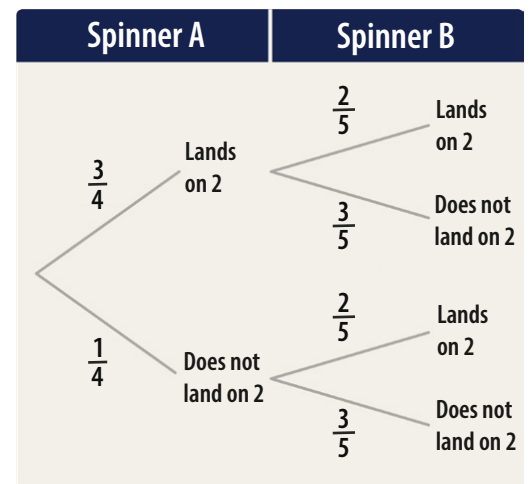
Deepen

Q8 £30

Q9



Q10a



Q10b $\frac{6}{20}$ or equivalent

Q11a

	1	2	3	4	5	6
	0.1	0.38	0.16	0.15	0.09	0.12

Q11b 315

Q12 $\frac{40}{81}$ or equivalent