

Calculate the probability of a single event

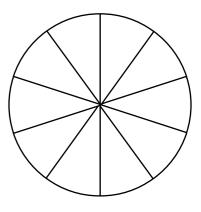
	A fair six-sided dice is rolled. What are the probabilities of the events?
	a) rolling the number 5 d) rolling a number less than 5
	b) rolling the number 6 e) rolling the number 7
	c) rolling an odd number f) rolling a square number
2	Amir spins the spinner. Each section is equally likely to be landed upon. Find the probabilities. a) landing on red b) landing on green c) landing on red or yellow d) landing on blue

3	He	ere is a numbered spinner.
	W	ork out the probabilities.
	a)	P(spinning a 1)
	b)	P(spinning an odd number)
	c)	P(spinning a number less than 4)
4	a)	Here are two spinners. B R R B
		The probability of spinning blue on each of these spinners is equal.
		Is the statement true or false?
		Explain your reasons.
	b)	Here is another spinner.
		The probability of the spinner landing on yellow is 50%.
		Is the statement true or false?
		Explain your reasons.

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5	A box contains some col	oured counters.		
	4 counters are red and 3			
	A counter is selected at	random.		
	Work out the probabilit	y that the counter	r is red.	
6	A box of chocolates con	tains 4 mint, 3 stro	awberry and 2 toffee cho	colates
	Annie selects a chocolat	e from the box at	random.	
	Find the probability tha	t the chocolate se	lected is:	
	a) mint			
	b) mint or strawberry		888	
	c) not strawberry			
7	A cupboard contains a b	ooy of whitehoard	nens	
	4 of the pens are black,			
	A pen is selected at rand		genew and 1 is real	
	Find the probability tha			
	a) red			
	b) green or yellow			
	c) not green			

- 8 A spinner has ten sections.
 Colour the spinner so that:
 - the probability of spinning red is $\frac{3}{10}$
 - the probability of spinning blue is 60%.



The table shows the number of students in each year group at a school.

Year group	Year 7	Year 8	Year 9	Year 10	Year 11
Probability	120	150	175	165	120

Λ	ctudent	ic	selected	at	random	
А	student	15	selected	uι	ranaom	h

Find the	probability	that the	student	will	be
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a) from Year 7	c) not from Year 8	
b) from Year 10 or Year 11		

- A charity is running a raffle.
 - The charity sells 250 red tickets numbered 1 to 250
 - The charity sells 170 green tickets numbered 1 to 170

A ticket is chosen at random to win a holiday.

Find the probability that the ticket selected will be:

a) green	c) numbered 201	
b) numbered 100	d) numbered 263	



