Probability and relative frequency						221
Name:						hs-school.co.uk
I roll a fair, 6 sided dice. Find the probability that I:						
a) roll a 4 $\frac{1}{6}$	c) roll an ev	en number	$\frac{3}{6}$	e) roll a number m	ore than 3	$\frac{3}{6}$
b) roll a 6 <u>1</u> <u>6</u>	d) don't rol	l a 5 or 6	<u>4</u> <u>6</u>	f) roll a number un	der 3	2 6
I pick a random letter from the alphabet. Find the probability that I:						
g) Pick a W	Pick a W $\frac{1}{26}$		j) Pick a consonant			
h) Pick a B	$\frac{1}{26}$		k) Pick a letter after S in the alphabet			
i) Pick a vowel	5 26	l) Pick a l	etter from the v	word SCHOOL	$\frac{5}{26}$	
I pick a random number from the numbers 1 to 20. Find the probability that I:						
m) Pick a multiple	e of 4 $\left(\frac{5}{20}\right)$		q) choose	a square number	$\left(\frac{4}{20}\right)$	
n) Pick a number v greater than 14	which is <u>6</u>		r) Pick a no number	on-triangular	$\left(\frac{15}{20}\right)$	
o) Pick a number which is 13 not a multiple of 4 or 6			s) Pick a factor of 15		$\frac{4}{20}$	
p) Pick a prime number $\frac{8}{20}$			t) a multiple of 5 or a factor of 12		$\left(\frac{10}{20}\right)$	
A coin is flipped 100 times, It lands on heads 40 times.						
a) What is the relative frequency of flipping a head? $\frac{40}{100}$						
 b) It is flipped another 100 times, and it lands on 30 more heads. What is the new relative frequency? 						
c) After a further 50 flips, it lands on tails 30 times. What is new relative frequency of getting a head?						
A biased dice is rol	lled 50 times, it lands o	n six 15 times	S	4.5		
d) What is the relative frequency of getting a six? $\frac{15}{50}$						
 e) It's rolled another 100 times, and it lands on six 25 more times. What is the new relative frequency? 40 150 						
f) After another 150 rolls, it lands on six 35 times. What is new relative frequency of getting a six?						
The spinner is and on green	a green sector, blue se spun 300 times and it	landed on rec	d 124 times			
b) From the next 100 spins, two fifths landed on green. $\frac{300}{400}$						