Qui	ESTION 1	Using the terms of impossible, or ever	-	· ·	ollowing eve	ents a	as certain, likely, unlikely,
a		ving four legs		b	rolling a 7	with	a normal die
c	choosing	a black card from a ne	l pack d	Monday will follow Sunday next week			
e	winning I	Lotto (assuming you h	not <b>f</b>	throwing a tail with a coin			
g		3 with a normal die	h	a year having 410 days			
Que	estion <b>2</b>	Select the most appropriate chance implied by	_			% and	d 100% to describe the
a	certain			b	an even cha	ance .	
c	probably			d	impossible		
e	unlikely _			f	perhaps		
g	definitely			h	likely		
i	possibly _						
QUE	estion <b>3</b>	Select from certain, an event that has a		-	-	, or i	impossible to best describe
a	90%		b	1/2		c	1
d	0		e	15%		f	<u>8</u> ————————————————————————————————————
g	100%		h	0.007		i	75%
j	<u>5</u>		k	1 200		l	98%
m	50%		n	0.125		0	1/80
p	0.93		q	7%		r	99%

QUE	STION <b>1</b> Write the sample space for each of the following.
a	selecting a day of the week
b	selecting a month of the year
c	rolling a die once
d	tossing a coin once
e	selecting a queen from the set of queens in a normal pack of playing cards
f	selecting a vowel
g	choosing a letter from the alphabet
h	choosing a digit from the counting numbers less than 8
QUE spac	STION <b>3</b> For each of the following probability experiments, write the number of elements in the sample e.
a	selecting a number from a normal die
b	selecting a face when tossing a coin
c	selecting a card from a normal pack of cards
d	selecting a digit from the counting numbers less than 10
e	selecting a ball drawn in a Lotto draw (the balls are numbered 1–45)

**Page 1** 1 a certain **b** impossible **c** even chance **d** certain **e** impossible **f** even chance **g** unlikely **h** impossible **2** a 100% **b** 50% **c** 75% **d** 0% **e** 25% **f** 25% **g** 100% **h** 75% **i** 25% **3** a most likely **b** even chance **c** certain **d** impossible **e** unlikely **f** most likely **g** certain **h** unlikely **i** most likely **j** most likely **k** unlikely **l** most likely **m** even chance **n** unlikely **o** unlikely **p** most likely **q** unlikely **r** most likely

**Page 2** 1 a {Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday} b {January, Feb., March, April, May, June, July, Aug., Sept., Oct., Nov., Dec.} c  $\{1, 2, 3, 4, 5, 6\}$  d {Head, Tail} e {queen spades, queen clubs, queen hearts, queen diamonds} f  $\{a, e, i, o, u\}$  g  $\{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$  h  $\{1, 2, 3, 4, 5, 6, 7\}$ 

3 a 6 b 2 c 52 d 9 e 45