MATHEMATICS

(a) $^{1}/_{6}$ `

(c) ½

1.

Answer A

	14 letters of the alphabet do not appear as the first letter of a surname.													
	2.	What is the probability that the surname of a child picked at random from the class												
	begins with either O and A?													
	(a) $\frac{5}{8}$		(b) ⁷ / ₈		(c)	⁹ / ₁₆			(d) ¹⁴	/25				
Ans	wer A													
	3.	If more than	one sur	rname k	oegir	ns wit	h a le	etter be	sides A	A and	O, hov	w man	y surn	ames
	begin v	with the letter?	? (a) 2		(b)	3		(c) 4			(d)	6		
	The table gives the score of a group of students in an English language test.													
		Scores				2	3	4	5	6	7			
		No of Student	:S			2	4	7	2	3	2			
Ans	wer B													
	4.	If a stude	nt is ch	nosen a	t rar	ndom	from	the gro	oup, w	/hat is	the p	robabi	lity th	at he
	scored	at least 6 mar	ks?											
	(a)	3/20	(b)	1/5	(c)	1/2	í		(d)	3/10)			
Ans	wer C													
	5.	What is the p	orobabi	lity that	t thr	ee cu	istom	ers wai	ting in	a ba	nk will	be se	rved ii	n the
	sequer	nce of their arr	ival at t	he bank	(?									
	(a)	1/6	(b)	1/3	(c)	1/	2		(d)	2/3				
Ans	wer B													
	6.	The probability		-		_	-		minatio	on are	² ¾ and	l 3/5 re	espect	ively.
	Find th	e probability o	of both I	•	ling 1	the ex	kamir	ation.						
	(a)	1/10	(b)	3/10	(c)	1/	2	(d)	2/3					
Ans	wer A													
	7.	The mean of 2	20 obse	rvations	s in a	an exp	erim	ent is 4.	. If the	obser	ved lar	gest v	alue is	23,
	find th	e mean of the	remain	ing obse	ervat	tions.								
	(a)	4	(b)	3										
	(c)	2.85	(d)	2.60										
Ans	wer A													

What is the probability of having an odd number in a single toss of a fair die

(b) $\frac{1}{3}$ (d) $\frac{2}{3}$

Use the following information for question 2 and 3

The surname of 40 children in a class were arranged in alphabetical order, 16 of the surnames begins with O and 9 of the surnames begins with A.

	8.	A grou	up of ele	even pe	ople ca	n speak	k either	English	or Fren	nch or	both.	Seven ca	an sp	eak
	English and six can speak French. What is the probability that a person chosen at random can													
	speak both English and French?													
	·	(a)	2/11		(b)	4/11	(c)	5/11		(d)	11/2	13		
Ans	wer B													
,		ts X an	d Y are ı	nutuall	y exclus	sive, P(X	() = 1/3	and P(Y	') = 2/5 <i>,</i>	Use	the	informat	tion	to
			ions 9 &		•	, ,		•						
	9.	P (X n		(a)	0		(b)	2/15	(c)	4/15		(d)	11/	/15
		. (****	.,	()			()	_,	(-)	.,		(/	,	
Δns	swer A													
7 1110			VV :c	(0)	0		/lp.\	2/15	(0)	4 /1 F		(ما/	11/	/1 F
_	10.	P (X u	Y) IS	(a)	0		(b)	2/15	(c)	4/15		(d)	11/	15
Ans	swer A	A 1		2 1						. ,				
	11.											es are pi		
						out rep	laceme	nt, Wh	at is the	e prob	ability	of pick	ing t	WO
	marble	s of dif	ferent o	olours?)									
	(a)	2/3		(b)	3/5	(c)	2/5		(d)	7/20				
Ans	wer D													
	12.	Mrs. J	ones is	expect	ing a b	aby. Th	he prok	ability	that it	will b	e a b	oy is ½	and t	the
	probab	ility th	at the b	aby will	have b	lue eye	s is ¼.	What i	is the pr	obabil	ity tha	at she wil	l have	e a
	blue-e	yed bo	y?											
	(a)	1/8		(b)	1/4	(c)	3/8		(d)	1/2				
Ans	wer B													
	13	Conve	rt the sp	eed 90	km pei	hour o	f a car t	o metre	es per se	econd				
	(a)	1.5 ms	s ⁻¹		(b)	2.5 ms	- 1	(c)	25 ms ⁻	1	(d) 1	1.5 x 10 ³	ms ⁻	-1
Ans	wer C													
	14				d a sum	of mor	ney on t	the ratio	o m:n. If	f Chidi'	s shar	e was N4	,200.	.00,
			ne's shar			- <i>1</i>			. ,			/		
۸	(a)	N4,20	Un/m	(b)	N4,200)/mn	(c)	N4,200)m/n	(d)	N4,2	200/n		
Ans	wer C													
	15	Δ husl	nand co	ntribut	as 7% n	f his inc	rome in	to a fur	nd and h	nis wife	cont	ributes 4	% of	her
												,000 p.a,		
			ontribu		-	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, pray arr	G 1115 111			,000 p.u,		
	(a)	N1,04		(b)	N605		N545		(d)	N490				
Ans	wer C	·							. ,					
	16	A car i	s traveli	ng at a	n avera	ge spee	ed of 80	kmh ⁻¹ .	lts spee	d in m	etres	per secor	nd (m	ı/s)
	is	(a) 13.	3m/s		(b)	22.2m	/s	(c)	133.3n	n/s	(d)	222.2	m/s	
Ans	wer B													
	17 If the children share N10.50K among themselves in the ratio 6:7:8, How much is the												- d	
	17			ı snare	אבט.50	ık amor	ig them	iseives	ın the f	สเเด ช	./:ŏ, l	now muc	ri IS 1	ıne
	largest	N3.00		(b)	N3.50	(c)	N4.00		(d)	N4.50	١			
Ans	wer C	, 43.00	•	(~ <i>)</i>	143.50	(~ <i>)</i>	147.00		(~)	147.50				

Þ	price. (a) Answer C	3:20	(b)	3:17	(c)	17:20		(d)	20:23		
	19 speed.	A car travels	at xkm p	per hou	r for 1 h	nour at y	⁄km per	hour fo	or 2 hou	rs. Find	its average
Þ	(a) Answer C	2x+2ykmh ⁻¹ /3	3 (b)	x+ ykn	nh ⁻¹ /3	(c)	x+2 yk	mh ⁻¹	(d)	2x+ yk	mh ⁻¹ /3
		The ages of th		ars, find	d the su	ım of the	e ages o	f the th	nree me	n.	_
Þ	(a) Answer C	45 years		(b)	72 yea	ars	(c)	108 ye	ears	(d)	216 years
	21 does it	A bicycle whe make? [Take			cm is ro	lled ove	r a dista	ance of	66m. H	ow mar	ny revolutions
F	(a) Answer C	2.5	(b)	5	(c)	25		(d)	50		
	22 bad on	In a bag of or les in the bag i				_				5:4. If th	ne number of
Þ	(a) Answer A	81	(b)	72	, (c)	54		(d)	45		
	23 sum of	A man is four their ages.	times a	is old as	s his sor	n. The di	fference	e betwo	een thei	r ages is	36. Find the
F	(a) Answer C	45 years`	(b)	48 yea	ars	(c)	60 yea	rs		(d)	74 years
a)	24 7:4	If 4m+3n = 5, (b)4:3(c)3:4	find the (d) 4:7	e ratio n	n:n <u>4m-</u>	<u>-3n</u> <u>3</u>					
F	Answer A										
	25 (a)	Answer B If 2 1/2	x : (x+1) (b)) =3:2, v 1	vhat is t (c)	the value	e of x?	(d)	3		

A trader makes a loss of 15% when selling an article. Find the ratio, selling price: cost

18

Ans		The ratio of th How many wor to women 3:2	nen mu								
Ans	(a) wer B	2	(b)	5	(c)	7		(d)	9		
	27 share i	Three men, Be s N150, find the			d Kofi s	hared N	500 in t	the ratio	3:2:x ı	respecti	vely. If Bedu's
Ans	(a) wer C	1	(b)	3	(c)	5		(d)	6		
Ans	28 (a) wer D	The sides of tv 4:5	vo cube (b)	s are in 8:15	the rat (c)	io 2:5, v 6:125	vhat is t	he ratio (d)	o of the 8:125	ir volum	es?
	29 Lena bought 400 Alpha Company shares at N1.50 each and sold them at N2.05 each. What was her gain?										
Ans	(a) wer C	N0.55	(b)	N20.00)	(c)	N220.0	00		(d)	N330.00
	Amma buys 100 oranges at 20 for C 30.00 and another 200 oranges at 4 for C 10.00. If she sells all her oranges at C3.00 each, what was her profit?										
Ans	(a) wer B 31	C150.00 The price of	a litre	(b) of pet	C250.0		c) C50) ed from		0 to C	(d) C65	
Ans	percen (a) wer B	tage increase i 90%		-				(d)	39%		
	32 his loss	A trader sold a as a percentag	•			1 00.008	making	a loss o	f 20% o	n his co	st price. Find
Ans	(a) wer C	16 ² / ₃ %		(b)	2%	(c)	25%		(d)	75%	
	33 Find its	An article bous	_	D5,000	0.00 de	preciate	e by 15	% of its	value	during	the first year.
	(a)	D425.00		(b)	D750.0	00	(c)	D4,250	.00	(d) Answe	D4,985.00 r C
Δne	34 (a) wer A	A house bough 20%	nt for N (b)	100,000 30%) was la (c)	ter auct 40%	tioned f	or N80, (d)	000, Fir 50%	nd the lo	oss percent.
Allo	35	The side of a	square	is incr	eased f	from 20)cm to	21cm.	Calc	ulate th	ne percentage
		se in its area. 2.5%	(b)	9.3%	(c)	10.0%		(d)	10.25%		

Answer D

36 Find th	A man bought e value of x.	2220 n	nangoes	at N5x	. He sol	d each fo	or 3x k	obo and	d made ga	ain of N8.
(a)	2	(b)	5	(c) Answe	6 er C	((d)	10		
37 metres	A car m oves	at an a	ive rage	speed	of 30kr	mh⁻¹, hc	w lon	g does	it take t	o cover 200
(a)	2.4sec	(b)	24sec		(c)	144sec		(d)	240sec	
		Ans	swer C	,					($\mathcal{O}_{I_{I}}$
38 000. If installn	A man bought he is allowed nent									-
(a) wer B	N1250	(b)	N1578		(c)	N1875		(d)	¥3125	
39 interes (a)	If the simple it charged? 21/4%	nterest (b)	on N2,	000 af	ter 9 m	orths is	7.	what r	ate per a	innum is the
	21/4/0	(D)	470	(c)	3/0	>	(d) *	070		
ver B		くつ								

A student bought 3 notebooks and 1 pen for N35. After misplacing these items, she again bought 2 note books and 2 pens, all of the same type for N30. What is the cost of a pen? (a) N5.00 (b) N7.50 (c) N10.00 (d) N15.00

Answer C

ENGLISH LANGUAGE

Choose the word nearest to the word in bold

- 1. After many years of struggle as a trader, he **struck gold**
- (a) Became quite rich (b) Won a big contract (c) he became a gold miner (d) became a goldsmith

Answer B

- 2. One significant character of the jet age is that it encourages people to cut corners
- (a) Not to face all problems (b) to want to become rich quickly (c) to want to avoid unnecessary hardships (d) forfeit the opportunity of further education.

Answer B

- 3. The lady who won the beauty contest had a good gait
- (a) Stature (b) figure (c) elegance (d) carriage

Answer B

- 4. It would need a high flyer to make a first class degree in the university
- (a) A smart performer **(b) an outrigh**t genius (c) an outstanding scholar (d) ar unmitigated swot

Answer D

- 5. What you will find in the book is a bird's eye view of the subject
- (a) A detailed account (b) a balanced account (c) a biased treatment (d) a general survey

Answer D

- 6. Hers was a chequered career
- (a) An interesting and successful career (b) a career full of sorrow and tears (c) a bright and memorable career (d) a career full of ups and downs

Answer D

- 7. If **ex**perience is anything to go by, this action will prove a **political mine field**
- (a) A source of political benefits (a) a way out of political trouble (c) a cause for political joy (d) an invitation to political problems.

Answer D

- 8. In my view, the play didn't **come off**
- (a) Succeed (b) fail (c) attract applause (d) take place

Answer D