NO.	QUESTION
1	N 252 R
	T 500 Y
	Y 400 P
	K 132 L
	G 182 ?
	Which letter replaces the question mark?
	A F
	B. V
	C. X
	D. Z
2	A bag contains 64 balls of 8 different colours.
	• There are 8 halls of each colour
	 It is pitch black, so you cannot see.
	How many balls would you have to take to be certain of getting at least 3 red balls?
	A 48
	B 36
	C 59
	D. 29
3	Which figure is the odd one out?
	A B C D E
4	A card player holds 13 cards of four different types, these being hearts, clubs, diamonds and spades. Hearts and diamonds are red and clubs and spades are black.

	• Out of the 13, 7 are black.									
	• Out of the 13, 6 are red.									
	Inere are twice as many nearts as clubs. There are twice as many nearts as clubs.									
	• There are twice as many diamonds as hearts.									
	How many spades does the card player hold?									
	A.	4								
	В.	3								
	C.	6								
	D.	8								
5	Buda and Pest are two cities 100 km away from each other. At 1 pm, train A leaves from Buda for Pest and travels at 25 km/h. Two hours later, Train B leaves from Buda for Pest and travels at 40 km/h.									
	when	iani A arrives, no								
	A.	15 km								
	В.	20 km								
	C.	25 km								
	D.	35 km								
Ū	consector	utive digits in the oliver	code should be less that	in 80. My friend tr	ied to guess my code	, and he mentioned	, five			
		6752	4563	7468	4380	0975				
	If the c could b	ode is divisible by the code?	3 and does not contai	n any repetitions,	how many of the po	ssibilities mentione	d			
	A.	1								
	В.	2								
	C.	3								
	D.	All of the possibi	lities							
	E.	Not enough info	rmation is given							
7	Two let and and produc	ters must be place other word when p e an eight-letter w	ed in each set of bracke blaced in front of the le ord when read downw	ets so that they for etters on the right. vards in pairs.	m a word when tacke The letters placed in	ed to the letters on t the brackets must	he left			
	GR()	LE								
	AL()	LD								
	то()	RK								
	SI()A	٨R								
	`/·									

What word can be formed? A. ABSTRACT B. ABSOLUTE C. ACHIEVED D. ATTITUDE E. None of the above 8 Below is a sudoku puzzle. Here are the rules of this game: A logo must only appear once in a column. • A logo must only appear once in a row. • A logo must only appear once in a 2x2 grid found in each corner. • What logo should be in the question mark? PZXAR GR DISNER D 9 Cullen recently emerged as the Dojo Cup champion. As a reward, his grandfather, Steve, plans on buying him sportswear from three different famous brands. Grandpa Steve gave Cullen a list, and Cullen is only allowed to pick one brand from each set. Set 1 Set 2 Set 3 Adidas Reebok Under Armour Nike Puma Reebok Puma Under Armour Fila Cullen already chose Nike and Reebok.

	What brand can Cullen not choose?
	A. Puma
	B. Fila
	C. Under Armour
	D. Adidas
10	 Danny is twice as old as Tommy was when Danny was as old as Tommy is now.
	The combined age of Danny and Tommy is 112 years.
	How old is Danny now?
	A. 38
	B. 54
	C. 64
	D. 76
11	There is a barbeque with a total of 35 people attending.
	• There are twice as many women as children.
	• There are twice as many children as men.
	How many men attended the barbeque?
	A. 4
	B. 6
	C. 2
	D. 5
12	Wednesday Addams has eight cubic bricks. Each brick has a different letter on each face.
	The letters on each brick are:
	Brick 1 - ISSQWD
	Brick 2 - ZXANSF
	Brick 3 - CKJMUX
	Brick 4 - EWPCEH
	Brick 5 - IFKJTB
	Brick 6 - LOWXVZ
	Brick 7 - ZXTATS
	Brick 8 - RWQKUP
	Which one of the following words lacks 2 bricks?

	 A. MORTICIA B. FUNERALS C. PIRANHAS D. SCISSORS
13	Enid Sinclair has five social media accounts with almost the same passwords. All of her passwords consist of 10 characters. She knows that the password for her reddit account has exactly one different character from the passwords of her other accounts. Her passwords are shown below:
	Password 1: E<3W!s}@') Password 2: E <bwis}@') Password 3: E<3WIs}@") Password 4: E<3WIs)@')</bwis}@')
	What is the password for Enid's reddit account?
	 A. E<3WIs}@'} B. E<3WIs}@`) C. E<3WIs}@') D. E<3\√\Is}@')
14	Sheehan and Czar decided to spend their lunch break playing the "Tower of Hanoi". The rules of the game are simple:
	 There are three bars. One bar contains all five pegs. The player has to move all the pegs to another bar in a way that the pegs are all stacked together, with the biggest one at the bottom and the smallest one at the top. The new stack of pegs shouldn't be on the bar where all the pegs were first stacked. You cannot transfer a peg to a bar with a bigger peg on top.
	Below is the ongoing game played by Sheehan and Czar. The pegs have already been moved several times. The first complete stack was from the first bar.
	Based on the image above, what is the least number of moves that Sheehan and Czar have to make in order to create and complete the "Tower of Hanoi"?
	 A. 3 B. 4 C. 5 D. 6

	Percy Jackson has a large number of passwords he needs to remember from the many internet accounts he has.										
	Thinking it will be more secure, he uses an alternative alphabet to create the passwords required to access the										
	different accounts. He uses a version of the Leet alphabet, shown in the table below, to create these passwords.										
	So, for example, LEET could be translated as 1337. To access his electricity account online, he makes the password										
	by translating his hint word SCYPHISTOMA using the Leet alphabet										
	.,										
	Take no	te that number	s combined with a symbol such a	s "I"	or other similar symbols can still	be counted					
	senarately										
	A /-\ or /\ or 4 or @ N \ or /\/ or \\ or / /										
		В	3 or 8 or o	0	0 or () or [] or {}						
		С	(or < or K or S	Р	2 or D						
		D) or o or > or <	Q	(,) or kw	_					
		E	3	R	2 or Z or ?						
		F	= or ph	S	5 or 2 or \$						
		G	(or 9 or 6	т	+ or '][' or 7						
		н	- or]-[or }-{ or (-) or)-(or #	U							
		1	1 or or ! or][V	/ or \ or V or /						
		J		w	\\\ or \ \ or / / or \ / or \^/ or //						
		к	< or /< or \< or {	X	>< or }{						
	L _ or or 1				`/ or '/ or j						
		м	V or /V\ or ' ' or (V) or /\\ or / \ or /v\	Z	2 or (\)						
	If the		NAA is two values of and the muscle			llouing totals is not					
	If the w		JIVIA is translated and the numbe	ers ar	e added up, which one of the fo	bilowing totals is not					
	a possi	ollity?									
		22									
	А.	23									
	В.										
	~	18									
	C.	18 21									
	С. D.	18 21 24									
10	C. D.	18 21 24									
16	C. D. Woody	18 21 24 has 13 pairs of	green mittens and 13 pairs of rec	l mitt	ens in his drawer.						
16	C. D. Woody	18 21 24 has 13 pairs of	green mittens and 13 pairs of rec	l mitt	ens in his drawer.						
16	C. D. Woody	18 21 24 has 13 pairs of Without looki	green mittens and 13 pairs of rec	l mitt f mitt	ens in his drawer. ens from the drawer.						
16	C. D. Woody	18 21 24 has 13 pairs of Without looki	green mittens and 13 pairs of rec ng, Woody takes out a number o	l mitt f mitt	ens in his drawer. ens from the drawer.						
16	C. D. Woody •	18 21 24 has 13 pairs of Without looki any mittens do	green mittens and 13 pairs of rec ng, Woody takes out a number o es he have to take in order to be	l mitt f mitt cert a	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody •	18 21 24 has 13 pairs of Without looki any mittens do	green mittens and 13 pairs of red ng, Woody takes out a number o es he have to take in order to be	l mitt f mitt cert a	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody • How ma A.	18 21 24 has 13 pairs of Without looki any mittens do 27	green mittens and 13 pairs of rec ng, Woody takes out a number o es he have to take in order to be	l mitt f mitt cert a	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody • How ma A. B.	18 21 24 has 13 pairs of Without looki any mittens do 27 33	green mittens and 13 pairs of rec ng, Woody takes out a number o es he have to take in order to be	l mitt f mitt cert a	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody How ma A. B. C.	18 21 24 has 13 pairs of Without looki any mittens do 27 33 14	green mittens and 13 pairs of rec ng, Woody takes out a number o es he have to take in order to be	l mitt f mitt certa	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody How ma A. B. C. D.	18 21 24 has 13 pairs of Without looki any mittens do 27 33 14 9	green mittens and 13 pairs of red ng, Woody takes out a number o es he have to take in order to be	l mitt f mitt cert a	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody How ma A. B. C. D.	18 21 24 has 13 pairs of Without looki any mittens do 27 33 14 9	green mittens and 13 pairs of rec ng, Woody takes out a number o es he have to take in order to be	f mitt certa	ens in his drawer. ens from the drawer. ain there is a matching pair?						
16	C. D. Woody How ma A. B. C. D. Minesw	18 21 24 has 13 pairs of Without looki any mittens do 27 33 14 9	green mittens and 13 pairs of red ng, Woody takes out a number o es he have to take in order to be based computer game that Yuki	l mitt f mitt certa	ens in his drawer. ens from the drawer. ain there is a matching pair? nous ballet dancer, does not kno	ow how to play. He					
16	C. D. Woody How ma A. B. C. D. Minesw asked N	18 21 24 has 13 pairs of Without looki any mittens do 27 33 14 9 veeper is a logic lima, his twin b	green mittens and 13 pairs of red ng, Woody takes out a number o es he have to take in order to be based computer game that Yuki rother, to teach him the rules. Ni	I mitt f mitt certa , a far ma m	ens in his drawer. ens from the drawer. ain there is a matching pair? nous ballet dancer, does not kno entioned the mechanics of the g	ow how to play. He game:					

- Mines are randomly placed on a board. You have to click the "safe" squares while avoiding the squares with mines. Your first move is pure guessing. After you click on a square, it would either show you a mine or a certain number from 1 to 8. Once you see numbers, the logic game begins.
- The numbers 1 to 8 indicate the number of mines that directly surround a certain square (A square has exactly 8 squares that directly surround it.).
- Players put red flags on squares that they think are mines.

Yuki tried playing minesweeper with the rules in mind. So far, this is what his board looks like:

				1	1					1			
				2	1	2		1	2	1			
				1	1	1	1	1	1				
				1	1	1							
				<u> </u>	<u> </u>	<u> </u>							
			1	1	1								
					З	1	1						
					4		1			1	1		
			7				1			1	T		
			-		_	_	•			-		I	
How m	any of the squ	uares that Yuk	i ma	rked	with	red f	lags a	are co	ertair	n to k	oe m	ines?	
Α.	5												
В.	6												
С.	7												
D.	8												
E.	9												
Eren Yeager uses the binary number system of coding to send a message to Mikasa Ackerman.													
The wo	rd BEAN is wri	itten as:											
010000	10 01000101	01000101 0	1001	110									

How should Eren encode the word MALLEABLE?

18

19	T'Challa	comes fron	n the village	e of Wakan	da. As some	eone who is	proud of h	is roots. he	constantly	uses the
	D.	01001101	01000001	01001100	01001100	01000101	01000001	01001100	01001100	01000101
	C.	01001101	01000001	01001100	01000101	01000101	01000001	01000010	01001100	01000101
	В.	01001101	01000001	01001100	01001100	01000101	01000001	01000010	01001100	01000101
	Α.	01001101	01000001	01001100	01001100	01000101	01000001	01000010	01010001	01000101

	Wakandan language. Thor, T'Challa's friend, tried to keep up by firstly studying the Wakandan alphabet.									
	While he was still learning, T'Challa sent him the following note:									
	≥ H Ô H B X									
	T'Challa wrote in uppercase letters, but Thor only studied the lowercase version of the Wakandan alphabet, as									
	Ϥ lr h fl ⊠ ¢ ≤ b λ k > ⊒ ╡ a b c d e f g h t j k l m									
	∥ ≒ Ŀ Х Y C ∧ Ò Ш ́ А Կ ≻ Ч n o p q r s t u v ω x y z									
	What could T'Challa's message possibly be?									
	 A. WE READ B. GO HOME C. NO WORD D. NO READ E. TO HOME 									
20	In the zoo, one giraffe sees 4 lions, every lion sees 5 gorillas and the gorillas all see 3 monkeys holding a mouse in each of their hands.									
	How many animals are there?									
	 A. 28 B. 36 C. 34 D. 58 									
21	Nav knows that the following phrases, expressed in a unique way, mean "BAY"									
	BAN ANA wonderaliceland ARREST YOU'RE									
	What could the following mean?									

	GROUND
	A. DIBS
	B. DIGS
	C. FISH
22	In 15 years, the combined age of four brothers will be 107.
	What will it be in 6 years?
	A. 71
	B. 68
	C. 88
	D. 54
23	A photographer is hanging six portraits on the wall in a straight line. The portraits are of six family members: Lily, Milly, Nancy, Owen, Peter and Quentin.
	• Milly's portrait is either first or last.
	There is one portrait between Nancy and Quentin.
	Nancy's portrait comes after Lily's but before Quentin's
	Which of the following is a possible order?
	A. Lily, Nancy, Peter, Quentin, Owen, Milly.
	B. Milly, Nancy, Lily, Quentin, Peter, Owen.
	C. Lily, Nancy, Peter, Owen, Quentin, Milly.
	D. Nancy, Peter, Owen, Lily, Quentin, Milly.
24	In the word "WRISTWATCH" how many sets of two letters have as many letters between them as in the English
	alphabet?
	A. 1
	B. 2
	C. 3
	D. 4
25	A gym teacher wants his 6 students, Candice, Thea, Ben, Jonathan, Will and Dan to line up in height order, from shortest to tallest.
	 Will is neither the tallest nor the shortest. No girl is taller than longthan
	 Dan is shorter than Candice but taller than Thea.
	• Ben is the tallest.

	If Jonathan is the second tallest, what must be true?
	A. Will is the third tallest.B. Will is the second shortest.C. Will is the third shortest.D. Thea is the shortest.
26	Here are some words translated from an artificial language.
	 hapllesh means cloudburst srenchoch means pinball srenchresbo means ninepin
	Which word could mean "cloud nine"?
	 A. leshsrench B. ochhapl C. haploch D. haplresbo
27	A museum must choose five stuffed birds to be shown in their newest exhibit. Their choices include an Albatross, a Bluebird, a Condor, a Diver, an Eagle, a Flamingo, a Gull and a Hummingbird.
	 If the Diver is chosen, then the Albatross is not. The Eagle is chosen only if the Flamingo is not. If the Flamingo is chosen, so is the Albatross and the Hummingbird. If the Gull is chosen, either the Hummingbird or the Bluebird is chosen as well.
	Which of the following is a complete list of the birds shown in the exhibit?
	 A. Albatross, Condor, Eagle, Diver, Bluebird. B. Diver, Eagle, Condor, Gull, Hummingbird. C. Gull, Hummingbird, Flamingo, Albatross, Bluebird. D. Flamingo, Albatross, Condor, Gull, Bluebird.
28	On a railway system, every station sells tickets to every single other station. During an expansion, some new stations were added.
	 46 additional sets of tickets were required. There were 11 original stations.
	How many stations were added?
	 A. 4 B. 1 C. 2 D. 3
29	Which of the following is the odd one out?

	A B C D E
30	 Fiona, Georgia, Heather, Ian, John, Kevin and Lily are forming a line, trying to get tickets to a concert. Fiona is standing in front of Ian. John is standing in front of Heather. If John is not first in line, Lily is standing somewhere in front of him. Ian is standing immediately in front of or immediately behind Kevin. If John is fourth in line, which of the following cannot be true? A. Fiona is behind Lily. B. Heather is in front of Ian. C. Kevin is behind Fiona. D. Georgia is behind Heather.
31	Identify the total value of the fourth and last row. $ \begin{aligned} \widehat{()} + \widehat{()} + \widehat{()} + \widehat{()} + \widehat{()} = 21 \\ \widehat{()} + \widehat{()} + \widehat{()} + \widehat{()} = 19 \\ \widehat{()} + \widehat{()} + \widehat{()} + \widehat{()} = 15 \\ \widehat{()} + \widehat{()} + \widehat{()} \times \widehat{()} = 2 \end{aligned} $ A. 25
32	B. 31 C. 29 D. 45 Below is a sudoku puzzle. Here are the rules of this game:

- An image must only appear once in a column.
- An image must only appear once in a row.
- An image must only appear once in a 2x2 grid found in each corner.

	What image should be in the question mark?									
						A.				
				?.		в.				
						с.				
			S			D.				
33	Jena Ortega has a la Thinking it will be m different accounts. So, for example, LEE by translating his hi	arge number o hore secure, sh SHe uses a ver ET could be tra nt word MISSI	f passwords sl te uses an alte sion of the Le nslated as 133 SSIPPI using t	ne needs to re ernative alphal et alphabet, sl 37. To access h he Leet alphal	member from bet to create t hown in the ta her Netflix acc bet.	the many internet accounts she has. the passwords required to access the able below, to create these passwords. ount online, she makes the password				
	Take note that num separately.	bers combined	d with a symbo	ol such as "l" c	or other simila	r symbols can still be counted				

						1
		1	A	/-\ or /\ or 4 or @	Ν	\ or /\/ or \\ or / /
		E	В	3 or 8 or o	ο	0 or () or [] or {}
		C	C	(or < or K or S	Ρ	2 or D
		ſ	D) or o or > or <	Q	(,) or kw
		E	E	3	R	2 or Z or ?
		F	F	= or ph	S	5 or 2 or \$
		C	G	(or 9 or 6	т	+ or '][' or 7
		H	H	- or]-[or }-{ or (-) or)-(or #	U	
		1		1 or or ! or][v	/ or \ or V or /
		•	J		W	\/\ or \ \ or / / or \ / or \^/ or //
		1	K	< or /< or \{	X	>< or }{
			L		Y -	/ or / or j
		Ľ	М	V or /V\ or ' ' or (V) or /\\ or / \ or /v\	Z	2 or (\)
	IV. A. B. C. D.	/v\!55!\$\$ 1 2 3 4 None	2 [כ		
34	John is f	four times old d is John's sor	der n n	than his son right now. In 20 year ow?	s, h	e will be twice as old as his son.
		10				
	A. R	20 years old				
	C.	50 years old				
	D	60 years old				
35	In a text	tile factory, a	ma	chine cuts rolls of cloth into 1 me	tre	strips.
35	In a text	tile factory, a Each roll is 1	ma 181	chine cuts rolls of cloth into 1 me m long.	tre	strips.
35	In a text	tile factory, a Each roll is 1 One cut take	ma L81 es 4	chine cuts rolls of cloth into 1 me m long. I seconds.	tre	strips.
35	In a text	tile factory, a Each roll is 1 One cut take ng will it take	ma 181 es 2	chine cuts rolls of cloth into 1 me m long. I seconds. e machine to finish the roll?	tre	strips.
35	In a text • • How lot A.	tile factory, a Each roll is 1 One cut take ng will it take 12 minutes	ma 181 es ²	chine cuts rolls of cloth into 1 me m long. 4 seconds. e machine to finish the roll?	tre	strips.

rth candidate by 105										
rth candidate by 105										
rth candidate by 105										
How many votes did the winner get?										
The following is a representation of a street with house numbers.										
 William lives in house 1 and Lucy lives as far away from him as possible. David lives in an odd number house. Sally is neighbours with Robin who lives on the same side as Lucy. David has neighbours on both sides and does not live opposite Lucy. 										
In which house number does David live?										
I have a 6-digit pin code for my bank account. The third multiple of the first two digits (when considered as one value) corresponds to the fifth and sixth digits, respectively. By adding 20 to the first two digits (when considered										
enumbers are greater										
If the fifth digit is 4, what could the sixth digit possibly be?										

	C. 4											
	D. 5 E. None of the above											
39	To ensure that no other person can read their notes, best friends Eleven and Max use a grid code when writing											
	messages. The grid looks like this:											
			1	2	3	4	5					
		Α	A/?	В	С	D	E					
		В	F	G	н	I/J	к					
		С	L	м	N	0	Р					
		D	Q	R	S	Т	U					
		E	v	w	х	Y	Z/.					
	If Eleven wants to reply by saying that "Vecna is here.", how should she write the code?											
	A. E1A5A3C3A1 B4D3 B3A5D2A5											
	B. E1A5A3C3A1 B4D4 B3A5D2A5A1											
	C. E1A5A8C3A1 B4D3 B3A5D2A5											
	D. E1A5A3C3A1 B4D3 B3A5D2A5E5											
40	Lily would like to send out family pictures to her extended family. The pictures measure 8.5 cm by 7.5 cm. Lily would like to enlarge the pictures before sending them, making the longer side 13.6 cm long.											
	How long will the shorter side have to be?											
	A 11 F am											
	A. 11.5 Cm	l										
	A. 11.5 cm B. 10 cm											
	A. 11.5 cm B. 10 cm C. 12 cm	I										