







THE MOST AWAITED MOST RESPECTED ADMISSION TEST OF THE YEAR FROM VMC



FOR STUDENTS PRESENTLY IN CLASS







Sample Paper – 7 Year Program

Vidyamandir Intellect Quest Test

Duration: 3.0 Hrs

Maximum Marks: 350

PAPER SCHEME:

- The paper contains 60 Objective Type Questions divided into three sections: Section I, Section II and Section III.
- Section I contains 10 Multiple Choice Questions (1-10) based on Mental Aptitude. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section II contains 35 Multiple Choice Questions (11-45) based on Mathematics. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section III contains 15 Multiple Choice Questions (46-60) based on Science. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.

MARKING SCHEME:

- Section I : For each question, 5 marks will be awarded for correct answer and -1 negative marking for incorrect answer.
- Section II & III : For each question, 6 marks will be awarded for correct answer and -1 negative marking for incorrect answer.

GENERAL INSTRUCTIONS:

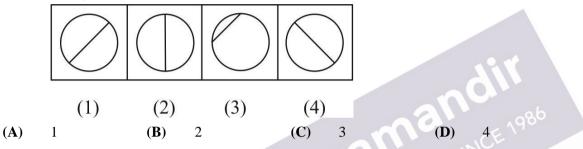
- For answering a question, an **ANSWER SHEET (OMR SHEET)** is provided separately. Please fill your **Name**, **Roll Number**, **Seat ID**, **Date of Birth** and the **PAPER CODE** properly in the space provided in the **ANSWER SHEET**. IT IS YOUR OWN RESPONSIBILITY TO FILL THE OMR SHEET CORRECTLY.
- Violating the examination room discipline will immediately lead to the cancellation of your paper and no excuses will be entertained.
- No one will be permitted to leave the examination hall before the end of the test.
- Please submit both the question paper and the answer sheet to the invigilator before leaving the examination hall.

SUGGESTIONS: Before starting the paper, spend 2-3 minutes to check whether all the pages are in order and report any issue to the invigilator immediately.

- Try to attempt the Sections in their respective order.
- Do not get stuck on a particular question for more than 3-4 minutes. Move on to a new question as there are 60 questions to solve.

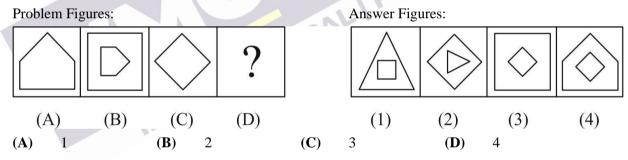
SECTION - I [MENTAL APTITUDE]

1. Choose the figure which is different from the rest.



2. In this question consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig (D).

Select a suitable figure from the Answer Figures that would replace the question mark (?).



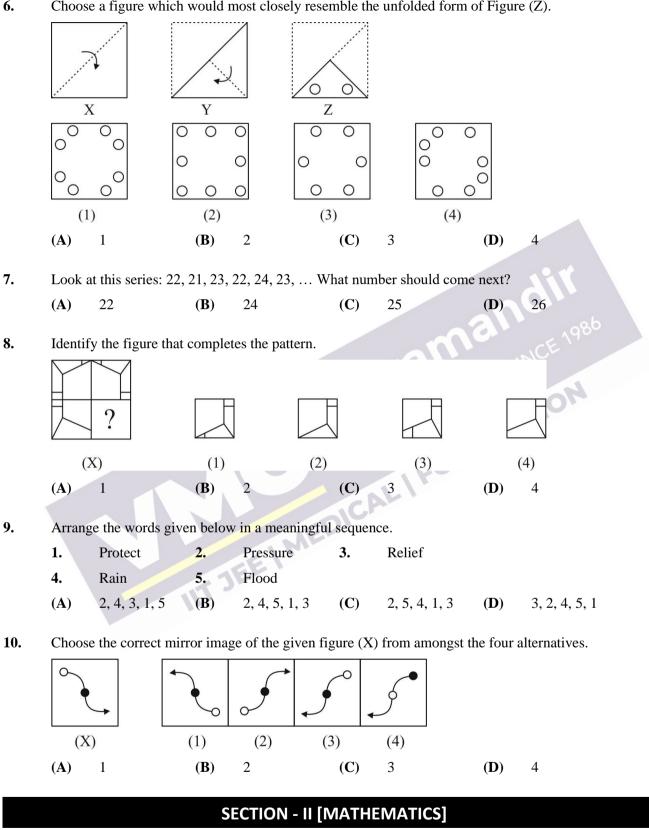
- A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?
 (A) Father
 (B) Brother
 (C) Uncle
 (D) Grandfather
- 4. Choose the alternative which is closely resembles the water-image of the given combination. monday

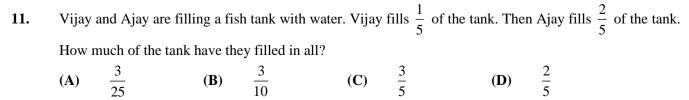
(1)	yadnom	(2)	m ond a y	(3)	ysdnom	(4)	monda y
(A)	1	(B)	2	(C)	3	(D)	4

5. If air is called green, green is called blue, blue is called sky, sky is called yellow, yellow is called water and water is called pink, then what is the color of clear sky?

(A) Blue (B) Sky (C) Yellow (D) Water

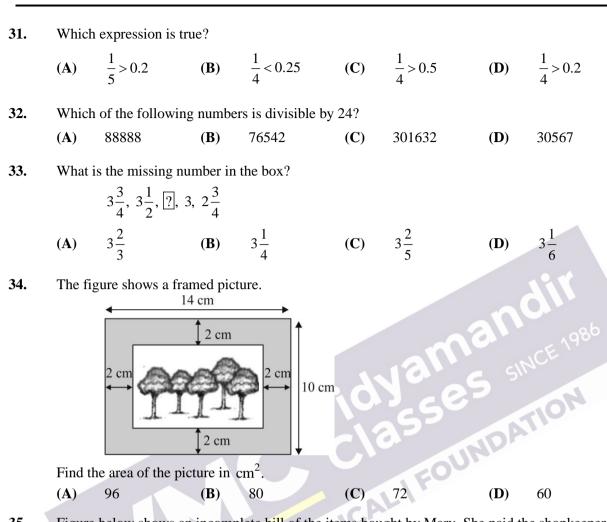
6. Choose a figure which would most closely resemble the unfolded form of Figure (Z).





12.	Figure below shows a number line. \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow
	(A) $5\frac{1}{4}$ (B) $5\frac{1}{2}$ (C) $5\frac{3}{4}$ (D) $6\frac{1}{4}$
13.	The number $2*3*$ has the same digit in the place of the asterisks and is divisible by 3. Which of the following digits should replace the asterisks? (A) 6 (B) 7 (C) 8 (D) 9
14.	Which multiplication is not correct?
	(A) $\frac{1}{2} \times 4.12l = 2600 \text{ml}$ (B) $\frac{2}{3} \times 2.19l = 1460 \text{ml}$
	(C) $\frac{3}{4} \times 3l = 2250 \text{ml}$ (D) $\frac{4}{5} \times 2l = 1600 \text{ ml}$
15.	There are 45 animals in a pet shop. $\frac{2}{3}$ of them are puppies, 6 of them are parrots and the rest are kittens.
	How many kittens are in the pet shop? (A) 10 (B) 9 (C) 8 (D) 7
16.	Sameer was told to multiply 126 by 32. Instead he multiplied 126 by 23. The difference in his answer, is:(A)1134(B)1143(C)2898(D)4032
17.	A watermelon is 10 times as heavy as two apples of equal mass. If the mass of each apple is 214 g, find the mass of 3 such watermelons.
	(A) 12840 g (B) 6420 g (C) 2140 g (D) 4280 g
18.	The adjoining figure is made up of 2 similar squares, A and B. Find the perimeter of the figure if the area
	of square A is 36 cm ² .
	A B
	Area = 36 cm^2
	(A) 24 cm (B) 48 cm (C) 30 cm (D) 36 cm
19.	The charges for hiring a boat are shown below.
	For the first hourRs. 15For every additional hour or part there ofRs. 10
	Mr. Paul hired a boat from 9.00 a.m. to 2.30 p.m. How much did he pay?
	(A) Rs. 30 (B) Rs. 45 (C) Rs. 65 (D) Rs. 70 21 9
20.	The decimal representation of $6 + 2\frac{21}{25} + \frac{9}{1000}$ is
	(A) 6.849 (B) 8.0849 (C) 8.849 (D) 8.93
21.	Find the value of the expression $\frac{2012 + 2012 + 2012 + 2012 + 2012 + 2012 + 2012}{2012 + 2012 + 2012 + 2012}.$
	(A) 6036 (B) 2012 (C) $\frac{4}{7}$ (D) $1\frac{3}{4}$

2.	How	nany numbers c	containin	g 8 in their tens	place are	e there between	300 and	400 ?					
	(A)	9	(B)	10	(C)	19	(D)	20					
3.	What	is the difference	e of the g	reatest 7 digit n	umber ar	d the smallest f	5 digit nu	mber?					
	(A)	9, 98, 099	(B)	99, 899	(C)	9, 98, 999	(D)	99, 89, 999					
4.	A nur	nber is made uj	p of 3 di	gits. The digit i	n the hu	ndred's place is	s twice th	ne digit in the one's place					
	The digit in the ten's place is 1 less than the digit in the one's place. If the digit in the ten's place is 2.												
	What	is the number?											
	(A)	623	(B)	432	(C)	622	(D)	224					
5.	A way	is given to exp	oress 660	as a product of (2) (P) $(660 \swarrow 330 \swarrow)$	-	~	e value of	<i>P</i> , <i>Q</i> and <i>R</i> respectively					
	(A)	11, 55, 2	(B)	55, 11, 2	(C)	2, 55, 11	(D)	55, 2, 11					
5.	The p	ictograph shows	s the num	ber of eggs sole	d by a tra	der in three day	/s.	ab					
	1	Monday	\subset	$\overline{) \bigcirc \subset}$	$\overline{)}$			NCE190					
		Tuesday	$\overline{\mathbf{C}}$	$\overline{)}$	$\overline{)}$	$\overline{\mathbf{O}}$	6 9						
		Wednesday	\overline{C}	$\overline{)}$				AQN.					
						25		TION					
	If the	<u> </u>	ents 25 eg		an dava	aalaulata tha nu	mbar of	eggs he had at first.					
	(A)	185	(B)	300	(C)	215	(D)	415					
		105	(1)	300	(C)	215	(D)	415					
7.	What is the missing sign in the box? $4\frac{1}{5} + 9\frac{1}{5} - 3\frac{1}{3} \qquad 6\frac{1}{4} - 8\frac{1}{4} + 5\frac{1}{4}$ (A) < (B) = (C) > (D) Can't be determined												
		$4\frac{1}{5}+9\frac{1}{5}-3\frac{1}{5}$	$\frac{1}{2}$ $6\frac{1}{4}$	$-8\frac{1}{4}+5\frac{1}{4}$									
	(A)	<	(B)	4 4	(C)	>	(D)	Can't be determined					
8.				day. How many									
	(A)	33	(B)	35	(C)	240	(D)	10					
9.	Monu	is thinking of a	four dig	it number.									
	•	• The fourth digit is the greatest.											
	•	• When the third digit is divided by the first digit, the quotient is 2.											
	•	• The difference between the second and third digit is 1.											
	•	The first digit	t is doubl	le of 2.									
	(A)	3768	(B)	4789	(C)	5698	(D)	1239					
0.	In a s	emi-final match	against	Pakistan, runs s	scored by	M.S. Dhoni w	vas divisil	ble by 11, 7 and 2. If to					
		- f I - 1' - ' - 202 -		n find the mine o	- 	MC Diantin							
	score	of India 18 302 i	runs, ther	i iniu the runs s	cored by	M.S. Dhoni is:							



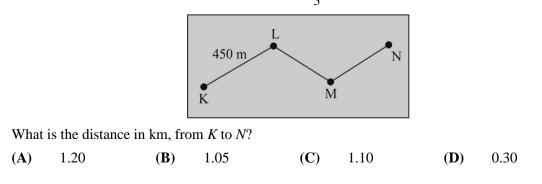
35. Figure below shows an incomplete bill of the items bought by Mary. She paid the shopkeeper Rs. 50.

Quantity	Item	Price per kg	Price
1.5 kg	Biscuits	Rs. 9.00	
4 kg	Beans	Rs. 3.50	
1 kg	Cooking oil	Rs. 4.80	

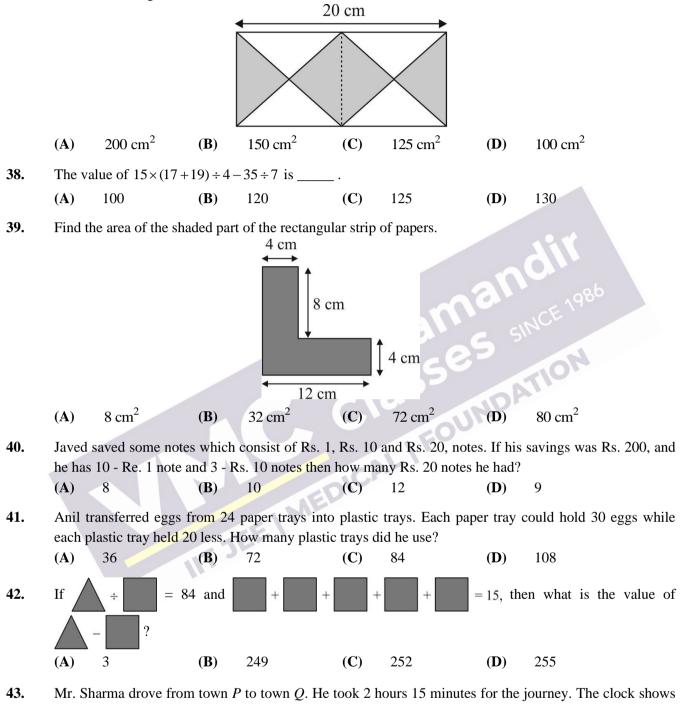
What else can she buy with the balance of the money?

- **(A)** 3 kg of biscuits **(B)** 5 kg of beans
- **(C)** 4 kg of cooking oil **(D)** 1 kg of biscuit and 2 kg of cooking oil

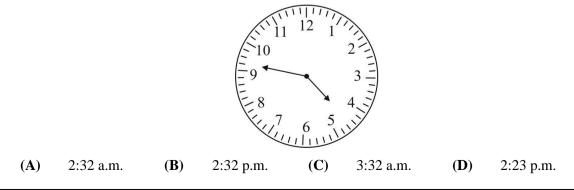
36. The figure shows the road map of four places, K, L, M and N. The distance from K to L is the same as the distance from L to M. The distance from M to N is $\frac{1}{3}$ of the distance from K to M.



37. The figure given below shows 8 identical triangles in 2 squares each of side 10 cm. Find the area of all the shaded triangles.



the time he arrived at town Q in the evening. When did he set off from town P?

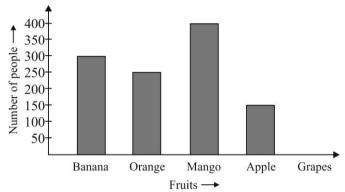


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(D)

9844

44. The given bar graph shows the number of people like different types of fruits. Study the graph and answer the question that follows.



If number of people like grapes is double to the number of people like apple, then find the total number of people in the survey.

(A) 145	0 (B)	1500	(C)	1400	(D)	1350	
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- **45.** Identify the number Z.
 - Add 156 to number Z, it will be 9800.
 - Subtract 156 from number Z, it will be 9488.
 - (A) 9544 (B) 9644 (C) 9744

SECTION - III [SCIENCE]

10	T 1	1	. C	6				
46.				of your thighs are		.0.		
	(A)	Iris	(B) Cerebrum	(C)	Quadriceps	(D)	Melanin
47.	Read	the statements of	careful	lly and choose the	correct o	ption :		
	Stater	nent A : There a	are 2 s	tomachs in the hur	nan body	1		
	Stater	nent B : There a	are 2 l	ungs in the human	body			
	(A)	A is true		36	(B)	B is true		
	(C)	Both A and H	B are t	rue	(D)	Both A and B	are Fals	se
40	M 1	(h. 6-11						
48.	Match	n the following						
	Α	Lungs	1	Urinary system	em			
	В	Kidneys	2	Nervous syst	em			
	С	Stomach	3	Respiratory sy	stem			
	D	Brain	4	Digestive sys	tem			
	(A)	A-3 B-1 C-4	D-2		(B)	A-2 B-3 C-1 I	D- 4	
	(C)	A-1 B-2 C-3	D-4		(D)	A-4 B-3 C-1 I	D-2	
49.	What	simple maching	11000	a alantad surface t	hat conne	ota a lovvar loval	to a hig	har laval 9
49.		*		a slanted surface the				_
	(A)	Inclined Plan	e (B) Screw	(C)	Wedge	(D)	Lever

- 50. A dry comb after combing the hairs is brought near the tiny pieces of paper, what happens?
 - (A) The paper pieces will get repelled due to magnetic force
 - (B) The paper pieces will get repelled due to electrostatic force
 - (C) The paper pieces will get attracted and stick with comb due to electrostatic force
 - (**D**) The paper pieces will get attracted to comb due to friction force

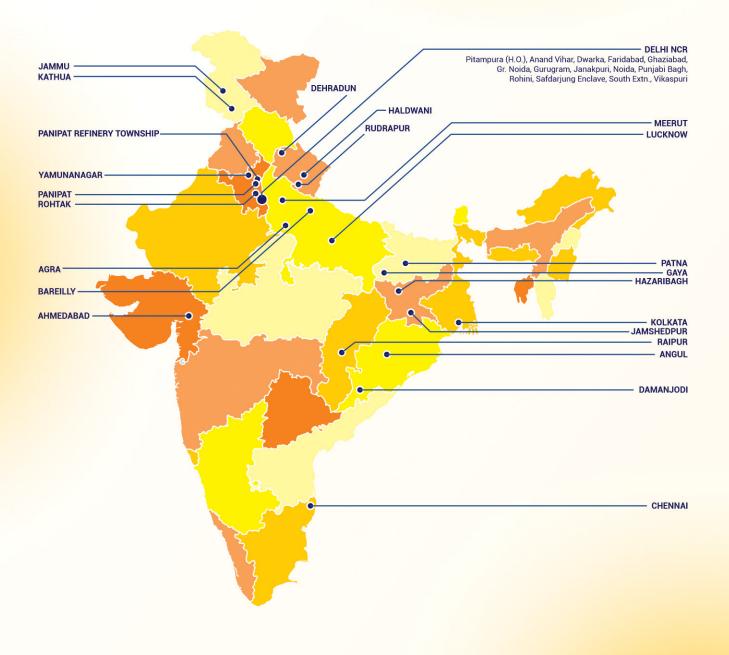
7 Year Pre-Foundation | VIQ Sample Paper

51.	(i) Sci	ssors (ii) bottle o	pener (i	ii) nail cutter, (iv) forcep	s. Which of the	followin	gs are example of levers?
	(A)	(i) and (iv)	(B)	(ii) and (iv)	(C)	(i), (ii) and (ii		(i), (ii), (iii), (iv)
52.	Which	n of the following	g takes p	lace when water	vapour	changes into ice	e?	
	(A)	Condensation	(B)	Vaporisation	(C)	Desublimation	n (D)	Evaporation
53.		n of the following	g is a ph	ysical change?				
	(A) (C)	Melting of ice Breaking of Gl	900		(B) (D)	Baking of Cal Both A and C		
		C						
54.		n of the following	-	compressed easi	•		11	
	(A) (C)	A block of wo			(B)	A Glass of mi	lk	
	(C)	Balloon filled	with air		(D)	All of these		
55.	Which	n Disease is cause	ed by Vi	tamin B1 deficie	ency?			
	(A)	Rickets	(B)	Beriberi	(C)	Pellagra	(D)	Gingivitis
56.	Defici	ency of which el	ement is	s caused by using	g purgati	ves on a regular	basis?	d''
	(A)	Iron	(B)	Potassium	(C)	Iodine	(D)	Sodium
57.	Select	the group of Dis	eases th	at spread by the	same m	eans or have the	same ca	use :
	(A)	Goitre, Anaem	ia , Scu	rvy	(B)	Dengue, Mal	aria , Nig	ght Blindness
	(C)	Cholera, Typh	oid, Alle	ergy	(D)	BeriBeri, Mal	aria, Pel	lagra
58.	Herbi	cides are used to	:			65		10.
	(A)	Remove the we	eeds		(B)	Remove the in	nsects	
	(C)	Beautify the field	elds		(D)	Make the crop	os health	ier
59.	Eating	g Fish is healthy a	as comp	ared to meat beca	ause fisł	n contains :		
	(A)	Essential vitam	nins		(B)	Essential fatty	v acids	
	(C)	More essential	vitamin	s and Proteins	(D)	All the nutries	nts of foo	od
60.	In add	lition to proteins	and cart	ohydrates, the o	ther eler	nents of nutritio	nal valu	e in milk include:
	(A)	Potassium and	iron	EE	(B)	Calcium and p	ootassiur	n
	(C)	Calcium, potas	sium an	d iron	(D)	Calcium and i		

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7 Year Pre-Foundation Sample Paper Answer Key											
Code-A Mapping	Code-A_Answer Key	Code-A Difficulty	Code-A Subject	Code-A Topic	Code-A Skill	Code-A +Ve Marks	Code-A -Ve Marks				
1	С	Easy	Mental Aptitude	Classification	Logical	5	1				
2	А	Medium	Mental Aptitude	Analogy	Conceptual	5	1				
3	С	Medium	Mental Aptitude	Blood Relation	Application	5	1				
4	D	Medium	Mental Aptitude	Water Image	Logical	5	1				
5	В	Easy	Mental Aptitude	Coding - Decoding	Memory	5	1				
6	А	Medium	Mental Aptitude	Paper Cutting & Folding	Memory	5	1				
7	С	Easy	Mental Aptitude	Verbal and Non Verbal Series	Calculation	5	1				
8	D	Difficult	Mental Aptitude	Figure Completion	Memory	5	1				
9	В	Medium	Mental Aptitude	Logical Sequence of Words	Logical	5	1				
10	С	Easy	Mental Aptitude	l Aptitude Mirror Image		5	1				
11	С	Easy	Mathematics	Fraction and decimal	Calculation	6	1				
12	С	Medium	Mathematics	ics Numbers		6	1				
13	С	Medium	Mathematics	Integers	Application	6	1				
14	A	Easy	Mathematics	Fraction and decimal	Application	6	1				
15	В	Medium	Mathematics	Fraction and decimal	Calculation	6	1				
16	A	Medium	Mathematics	Integers	Conceptual	6	1				
17	А	Difficult	Mathematics	Integers	Application	6	1				
18	D	Difficult	Mathematics	Mensuration	Conceptual	6	1				
19	C	Medium	Mathematics	Integers	Application	6	1				
20	C	Medium	Mathematics	Fraction and decimal	Calculation	6	1				
21	D	Medium	Mathematics	Integers	Logical	6	1				
22	В	Easy	Mathematics	Numbers	Logical	6	1				
23	D	Medium	Mathematics	Integers	Calculation	6	1				
24	A	Difficult	Mathematics	Numbers	Conceptual	6	1				
25	C	Medium	Mathematics	Numbers	Conceptual	6	1				
26	D	Easy	Mathematics	Data handling	Calculation	6	1				
27	C	Easy	Mathematics	Fraction and decimal	Calculation	6	1				
28	В	Medium	Mathematics	Integers	Logical	6	1				
29	В	Difficult	Mathematics	Numbers	Logical	6	1				
30	В	Difficult	Mathematics	Numbers	Application	6	1				
31	D	Easy	Mathematics	Fraction and decimal	Calculation	6	1				
32	С	Medium	Mathematics	Integers	Logical	6	1				
33	В	Medium	Mathematics	Fraction and decimal	Calculation	6	1				
34	В	Medium	Mathematics	Mensuration	Conceptual	6	1				
35	В	Difficult	Mathematics	Fraction and decimal	Application	6	1				
36	A	Medium	Mathematics	Data handling	Logical	6	1				
37	D	Medium	Mathematics Mathematics	Mensuration	Conceptual	6	1				
38	D	Medium	Mathematics Mathematics	Integers	Calculation	6					
39 40	D	Medium Medium	Mathematics Mathematics	Mensuration Integers	Application Conceptual	6 6	1				
40	B	Difficult	Mathematics	-	Conceptual	6	1				
41	В	Difficult	Mathematics	Integers Shapes	Logical	6	1				
42	В	Easy	Mathematics	Fraction and decimal	Application	6	1				
43	C	Medium	Mathematics	Data handling	Logical	6	1				
44 45	В	Easy	Mathematics	Numbers	Logical	6	1				
45	C	Easy	Science	The skeletal system	Conceptual	6	1				
40	В	Easy	Science	The skeletal system	Memory based	6	1				
47	A	Medium	Science	The skeletal system	Memory based	6	1				
48	A	Easy	Science	Force and Energy	Application	6	1				
49 50	C	Easy	Science	Force and Energy	Conceptual	6	1				
51	D	Medium	Science	Force and Energy	Conceptual	6	1				
52	C	Easy	Science	States of Matter	Memory based	6	1				
53	D	Medium	Science	States of Matter	Application	6	1				
54	C	Easy	Science	States of Matter	Application	6	1				
55	В	Easy	Science	Deficiency and Communicable disease	Memory based	6	1				
56	B	Easy	Science	Deficiency and Communicable disease	Memory based	6	1				
57	A	Medium	Science	Deficiency and Communicable disease	Application	6	1				
58	A	Medium	Science	Food and its components	Memory based	6	1				
		Easy	Science	Food and its components	Memory based	6	1				
59	в						-				
59 60	B	Medium	Science	Food and its components	Memory based	6	1				

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