

11+ Practice Papers

CEM Style Mock Exam
DL-19-002 (A and B)

Multiple Choice Format	Answer sheets included	Timed Papers	Full answers and explanations	Separate papers with sections
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LEVEL 4



A-STAR TUTORS

11+ Mock Exam

DL-19-002-A

Multiple-Choice Question Paper

Read the following carefully:

- This is a multiple-choice paper in which you have to mark your answer to each question on the separate answer sheet. You should mark only one answer for each question.
- Mark the answer clearly. If you make a mistake, rub it out as completely as you can and put in your new answer.
- There are three sections in this paper. Each section is timed and may have different number of questions.
- Be sure to keep your place in the correct question on the answer sheet. Mark your answer in the box that has the same number as the question in the booklet.
- The answers should be marked on the answer sheet provided. Do not mark your answers on the question paper.
- Make sure you mark the answer in the correct column matching the question number.
- If you find a question difficult, do not spend too much time on it. Move on to the next question and come back to it later.

80 Multiple Choice Questions to be completed in 50 minutes

Section 1 – 30 Questions to be completed in 20 minutes

Section 2 – 25 Questions to be completed in 15 minutes

Section 3 – 25 Questions to be completed in 15 minutes

MA-1.A : NUMERICAL REASONING

Answer the questions below. Shade your answer on the answer sheet by choosing one of the options A-E.

1 What is the square root of 400?

A	B	C	D	E
37	30	20	27	32

2 What is the remainder when 1862 is divided by 23?

A	B	C	D	E
30	13	22	31	23

3 If $11x - 99 = 77$, then what is the value of x ?

A	B	C	D	E
16	27	9	28	13

4 What is the number midway between -6 and 8 on the numberline?

A	B	C	D	E
7	-1	-2	1	10

5 Which of the following is an obtuse angle?

A	B	C	D	E
252	45	175	276	191

6 What is two third of 78?

A	B	C	D	E
77	108	95	52	25

7 Calculate the mode of the following numbers: 2,13,14,14,19,19,14,16,19,19,13

A	B	C	D	E
13	14	2	16	19

8 How many faces does a SQUARE-BASED-PYRAMID have?

A	B	C	D	E
5	8	9	11	14

9 Write Nine Hundred and Two Thousand, Four Hundred and Seventy Nine in numbers.

A	B	C	D	E
902383	902510	902544	902479	902394

10 What is the HCF (Highest Common Factor) of 28 and 20?

A	B	C	D	E
4	8	11	2	6

11 What is the difference between 20% of 1400 and 40% of 500?

A	B	C	D	E
80	86	96	169	92

12 What is the product of 7, 23 and 14?

A	B	C	D	E
2258	2254	2256	2260	2245

13 Which of the following is NOT a factor of 130?

A	B	C	D	E
9	2	13	5	65

14 What is 16:58 on the 12 hour clock?

A	B	C	D	E
05:28 PM	04:58 AM	10:58 PM	04:58 PM	10:58 AM

15 What is the area of a square (in square cm) with sides measuring 11 cm?

A	B	C	D	E
121	113	88	137	157

16 Which of the following is the smallest number divisible by 19 and 18?

A	B	C	D	E
334	332	346	340	342

17 Calculate the median of the following: 24, 69, 90, 59, 41, 71, 30, 17, 23

A	B	C	D	E
30	41	69	23	90

18 What is 60% of 800?

A	B	C	D	E
486	480	474	498	497

19 What is the product of 30 and 13.2?

A	B	C	D	E
396	322	540	703	752

20 What is the value of $653 - 204$?

A	B	C	D	E
447	449	452	445	443

21 Evelyn has \$2.71. Jessica has Two times as much. How much money have they got altogether?

A	B	C	D	E
\$8.83	\$6.95	\$8.13	\$3.70	\$4.46

22 By how many centimetres is 71 cm and 151 cm more than Two metres?

A	B	C	D	E
25	16	24	19	22

23 What is the difference in metres between 50.8 km and 44.1 km?

A	B	C	D	E
7391	2084	3150	6700	4043

24 What is the HCF (Highest Common Factor) of 3, 87 and 99 ?

A	B	C	D	E
3	8	5	7	2

25 10 percent of 900 is equal to 30 per cent of what number?

A	B	C	D	E
340	300	290	310	250

26 Scarlett's coin collection contains Danish, Lithuanian and Liberian coins. If the ratio of Danish to Lithuanian coins is 3:8 and the ratio of Lithuanian to Liberian coins is 7:4, then what is the ratio of Danish to Liberian coins?

A	B	C	D	E
21:32	23:30	6:11	2:3	10:17

- 27 Add Seventy Four Thousand, Eight Hundred and Sixty Eight with Ninety Five Thousand, Eight Hundred and Thirty Seven

A	B	C	D	E
170686	170724	170682	170661	170705

- 28 In a class of Thirty Three students Ten are taking Mandarin and Twenty Four are taking Hungarian. Of the students taking Mandarin or Hungarian, Four are taking both courses. How many students are not enrolled in either course?

A	B	C	D	E
1	5	2	3	6

- 29 A confectioner has 800 rhubarb, 800 grape and 800 blueberry flavoured sweets. He wishes to make packets containing 15 rhubarb, 25 grape and 5 blueberry sweets. What is the maximum number of packets he can make?

A	B	C	D	E
28	33	32	36	30

- 30 Which of the following is exactly divisible by 20? : 1160, 308, 1199, 2888, 1363

A	B	C	D	E
308	1199	2888	1363	1160

GO TO NEXT PAGE

SECTION B

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EN-2.A	SYNONYMS	5 QUESTIONS
Select the word that is the SYNONYM of the word given below. Shade your answer on the answer sheet by choosing one of the options A-E.		

31 TEMPTATION

A	B	C	D	E
ATTRITION	ATTRACTION	TRACTION	TREPIDATION	INSERTION

32 INFLUENCE

A	B	C	D	E
INSPIRE	INFLUENZA	EFFLUENT	AFFLUENT	FLUENT

33 ORIGIN

A	B	C	D	E
ORIGAMI	RETURN	CENTRE	MIDDLE	SOURCE

34 SELDOM

A	B	C	D	E
RARELY	FREQUENT	REGULAR	HABITUAL	OFTEN

35 RESIGN

A	B	C	D	E
QUIT	REMAIN	KEEP	KEPT	LOST

EN-2.B	ANTONYMS	5 QUESTIONS
Select the word that is the ANTONYM of the word given below. Shade your answer on the answer sheet by choosing one of the options A-E.		

36 WITHER

A	B	C	D	E
STRENGTHEN	WEAKEN	FADE	DECLINE	WILT

37 STERN

A	B	C	D	E
SEVERE	STRICT	HARSH	FIRM	CHEERFUL

38 DISTRESS

A	B	C	D	E
SUFFERING	PEACE	PAIN	SORROW	ANGUISH

39 CONCEAL

A	B	C	D	E
REVEAL	HIDE	COVER	MASK	DISGUISE

40 HOLLOW

A	B	C	D	E
SOLID	DEEP	DULL	HEAVY	LOW

EN-2.C

LOGIC

8 QUESTIONS

Answer the following. Shade your answer on the answer sheet by choosing one of the options A-E.

41 There are four Yachts sailing in a square formation with each Yacht occupying one corner of the square formation. The Yachts are named A, B, C and D. Yacht B is NORTH-WEST of D. Yacht C is EAST of B. Yacht D is SOUTH-EAST of B. Yacht A is SOUTH-WEST of C. Which Yacht is at the BOTTOM-RIGHT corner of the formation?

A	B	C	D	E
A	B	C	D	NONE

42 Which VOWEL occurs TWICE in 'DIAGNOSTIC', but only ONCE in 'SANDWICHES'?

A	B	C	D	E
A	O	I	E	U

43 Change one letter in the word on the left (RICH) to make a new sensible word. By changing one letter in this new word, it should be possible to make the word on the right (RIDE).

RICH [_____] RIDE

A	B	C	D	E
RICE	RISE	RUDE	HIDE	RODE

44 Which letter occurs most often in 'APPALLINGLY'?

A	B	C	D	E
N	I	A	L	P

45 Which letter comes exactly midway in the alphabet between 'H' and the FOURTEENTH letter?

A	B	C	D	E
C	A	K	B	D

46 Half this number added to 18 is 33. What is the number?

A	B	C	D	E
30	54	83	109	53

47 Half this number added to 27 is 66. What is the number?

A	B	C	D	E
127	96	59	58	78

48 Which letter occurs twice in 'UNBEARABLE', but only once in 'INTERACTIVE'?

A	B	C	D	E
N	U	A	B	E

EN-2.D

VR TYPE J

7 QUESTIONS

In the following questions, you are given two words. Choose one letter that can be moved from the word on the left to the word on the right, making two new words. You cannot rearrange any letters, but the letter that you move can fit anywhere in the second word. Shade your answer on the answer sheet by choosing ONE of the options A-E.

49 STRAY, LATE

A	B	C	D	E
S	T	R	A	Y

50 FINER, WIDE

A	B	C	D	E
F	I	N	E	R

51 HARDY, UNIT

A	B	C	D	E
H	A	R	D	Y

52 RANGE, PLAN

A	B	C	D	E
R	A	N	G	E

53 DRAFT, TEND

A	B	C	D	E
D	R	A	F	T

54 LEARN, FACE

A	B	C	D	E
L	E	A	R	N

55 ABOUT, MEND

A	B	C	D	E
A	B	O	U	T

GO TO NEXT PAGE

SECTION C

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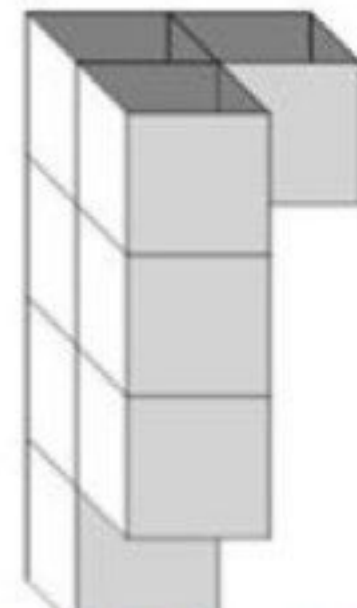
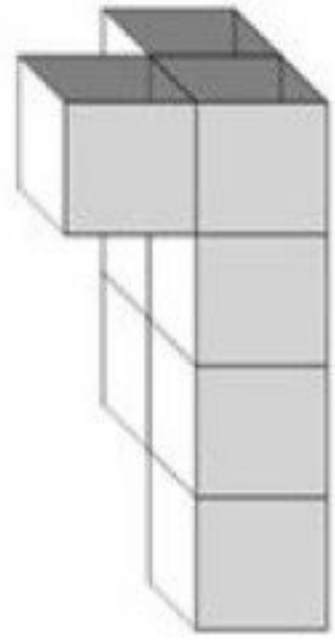
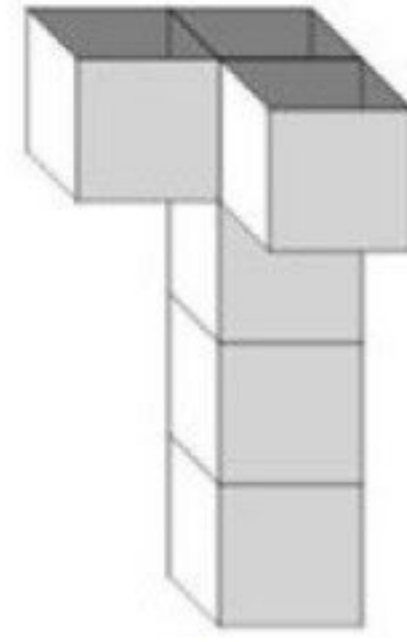
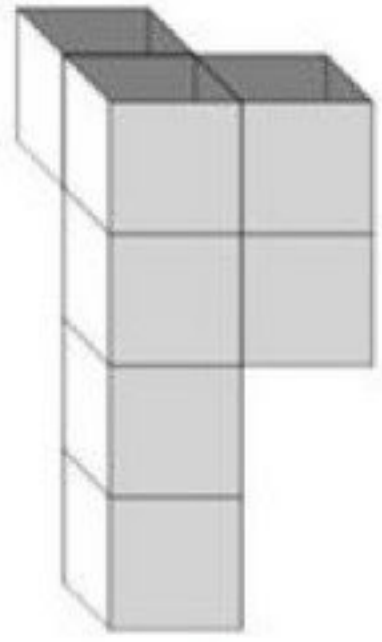
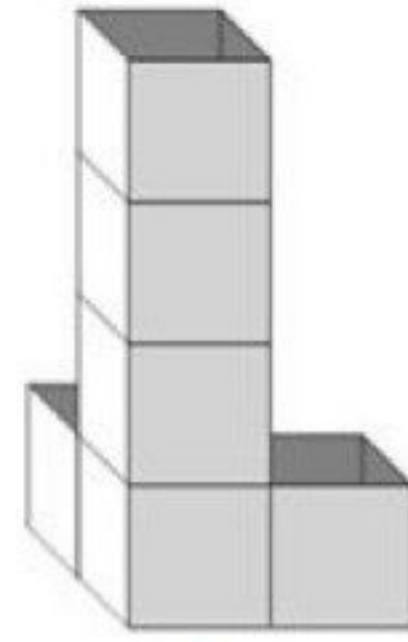
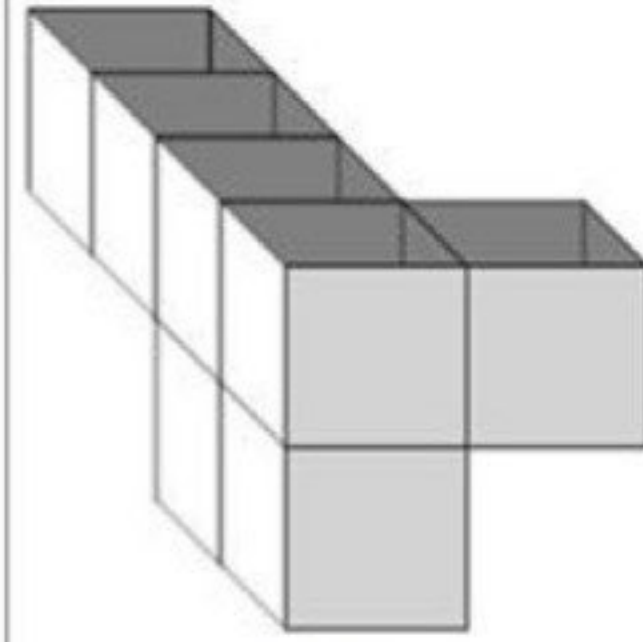
VN-3.A

NVR 3D ROTATION

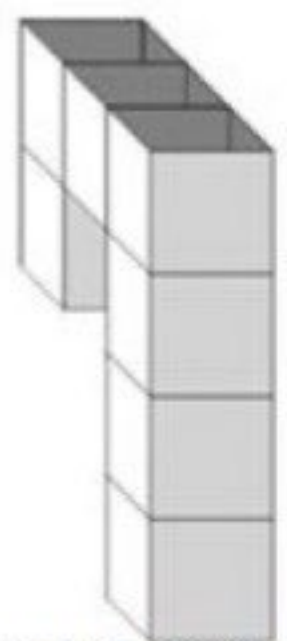
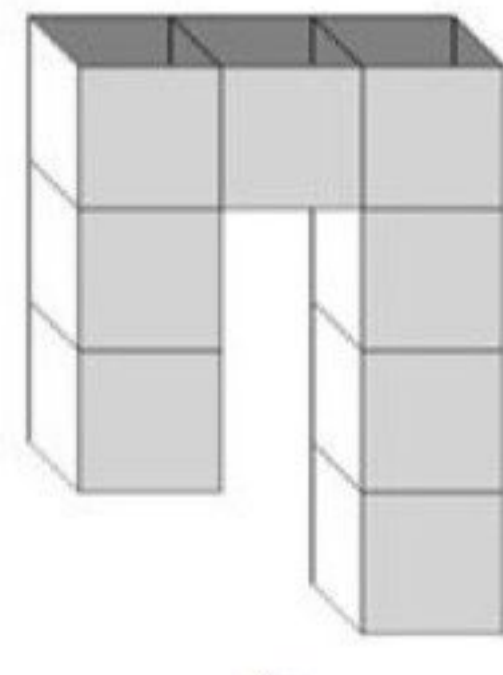
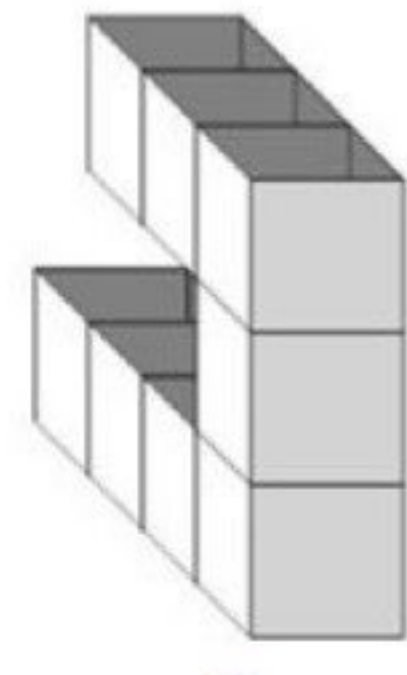
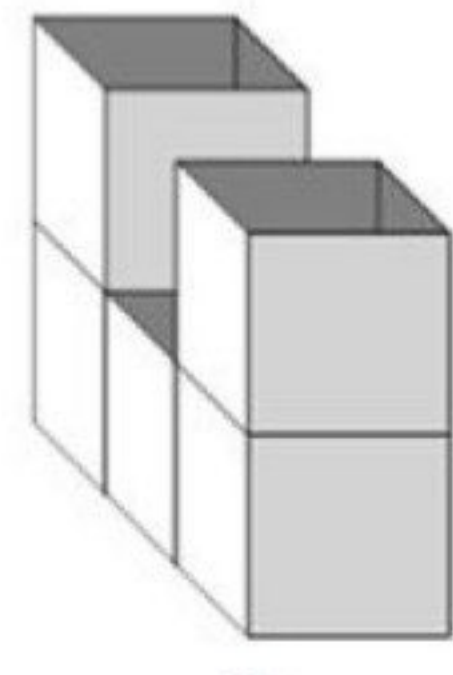
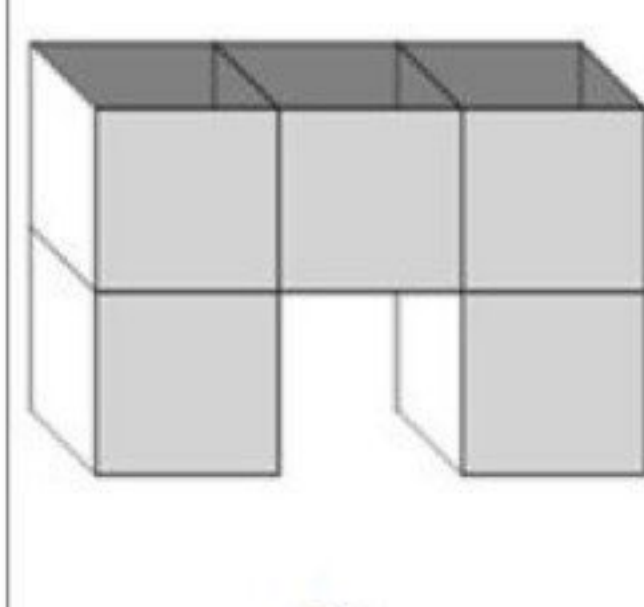
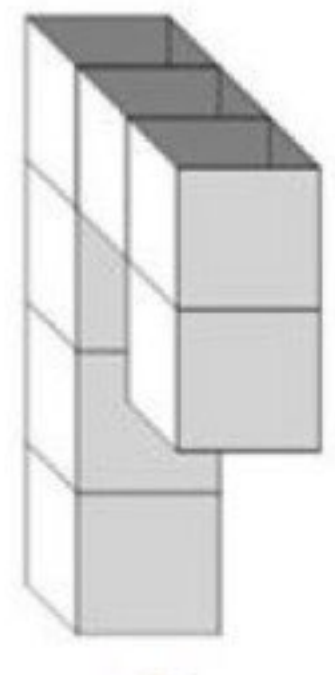
5 QUESTIONS

Select the shape from the options given which is a rotation of the shape on the left.

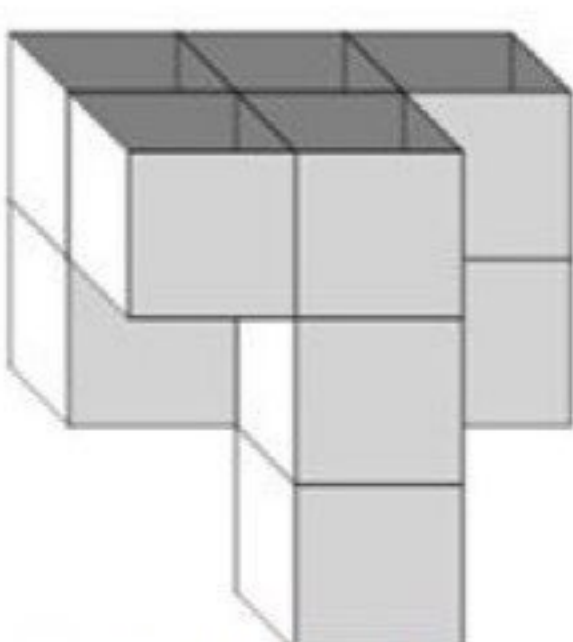
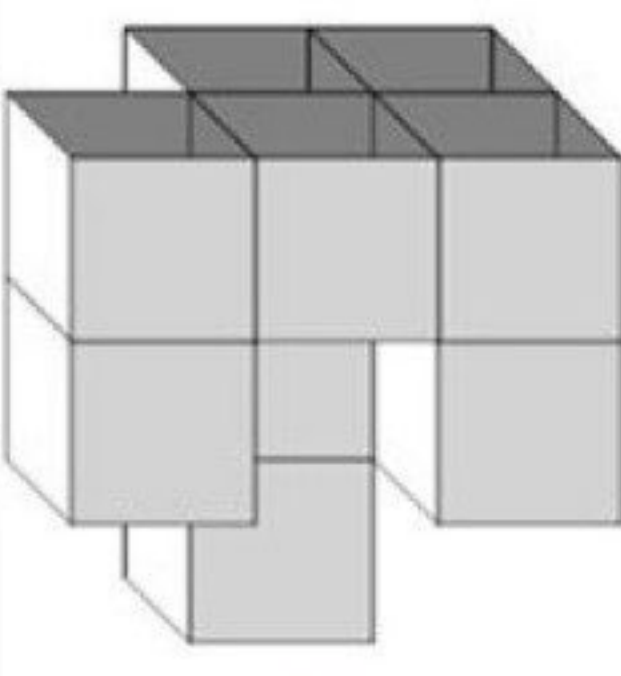
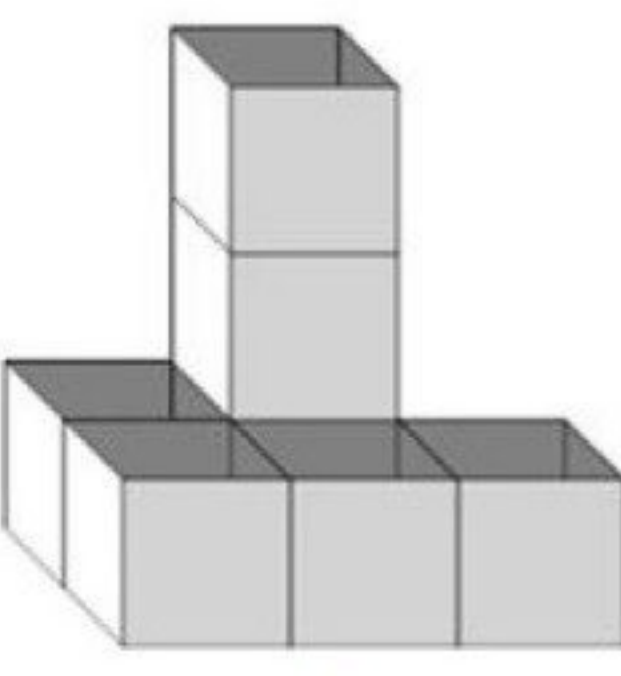
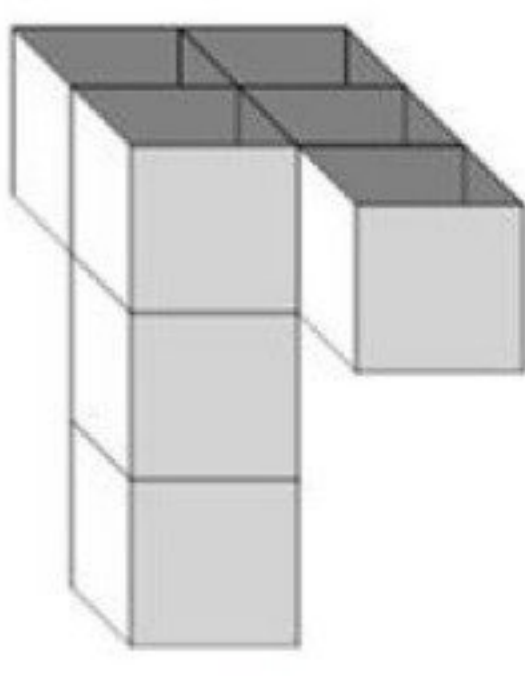
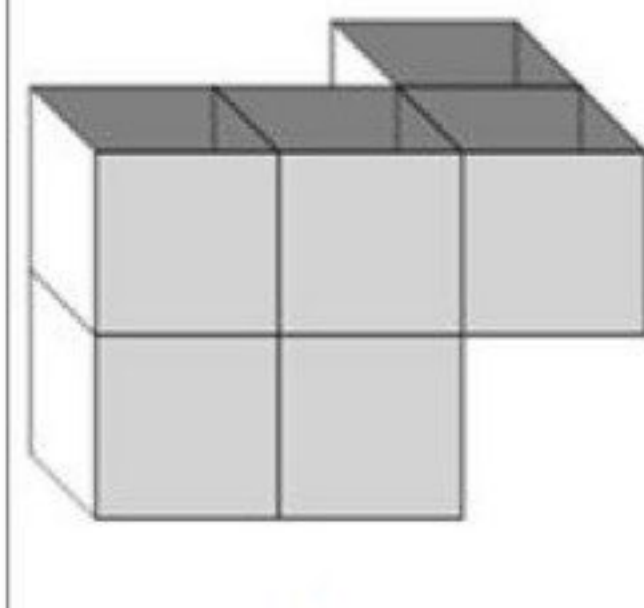
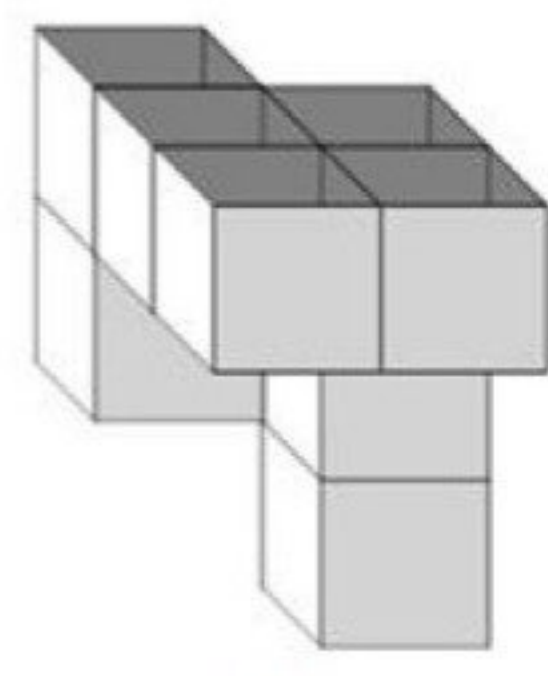
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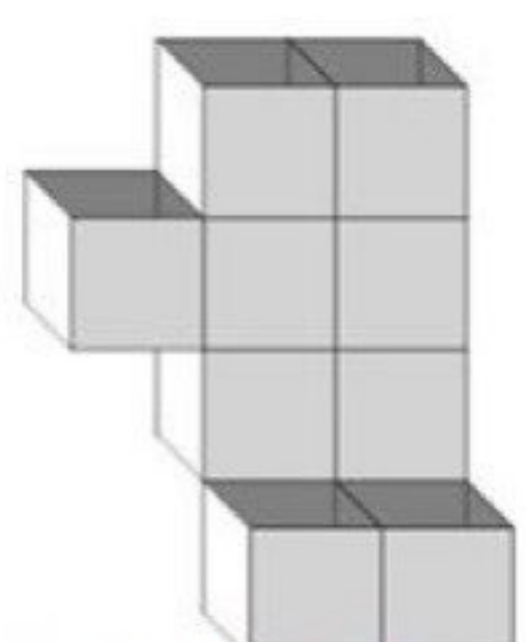
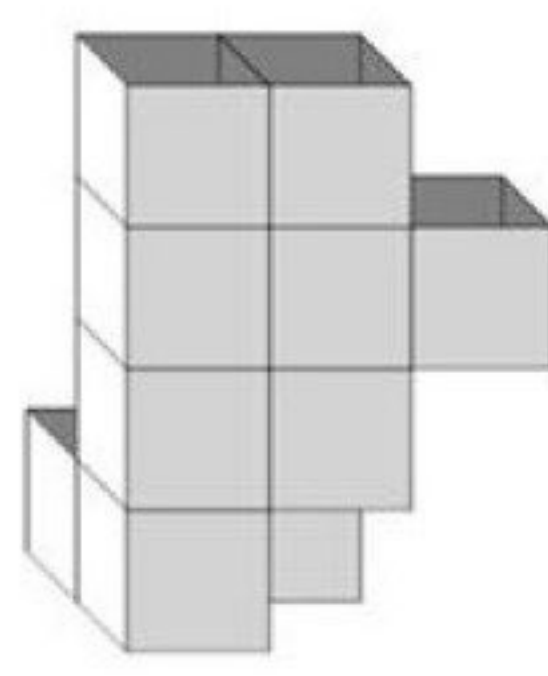
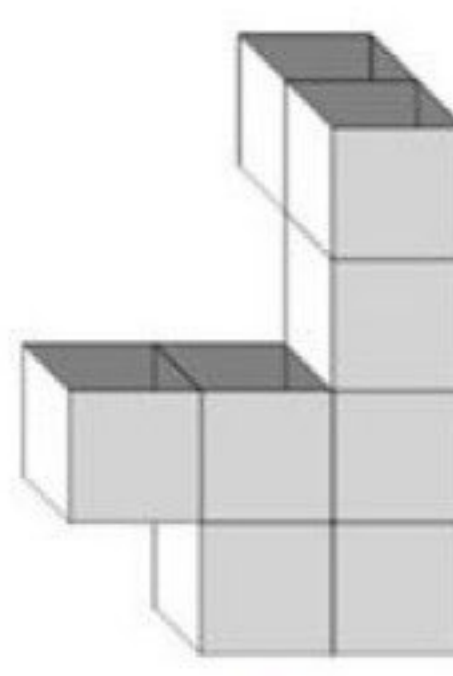
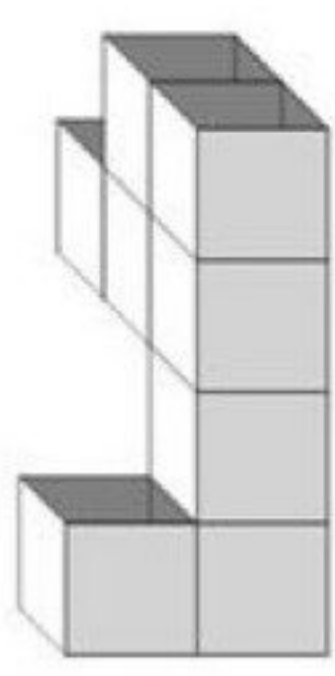
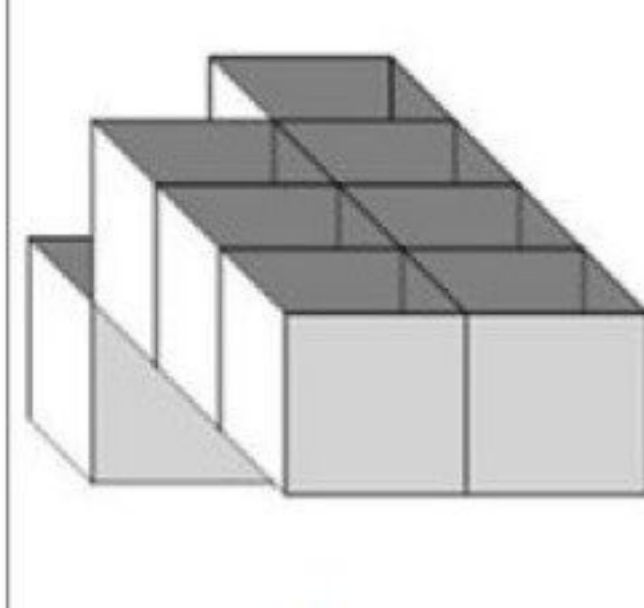
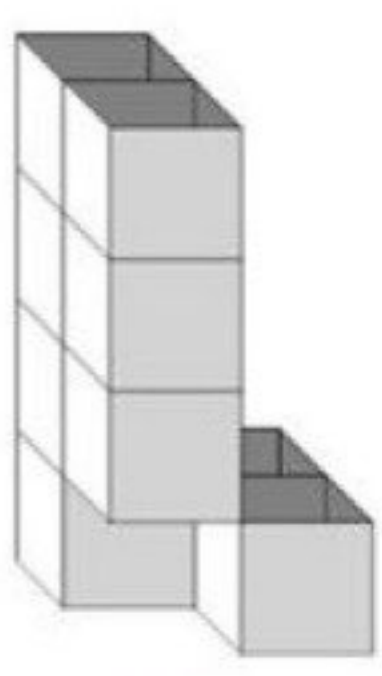
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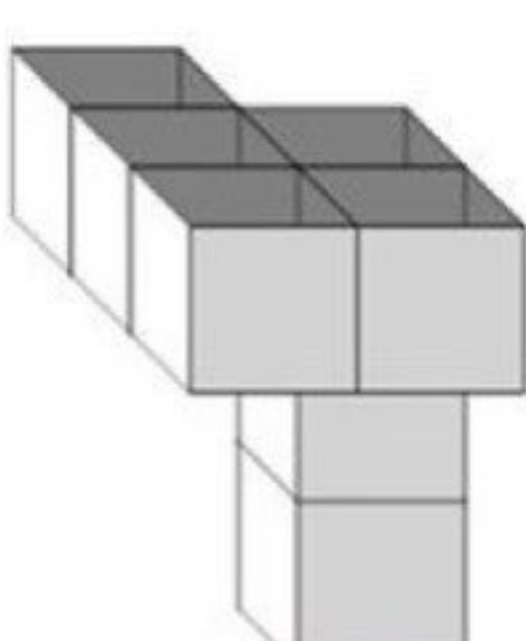
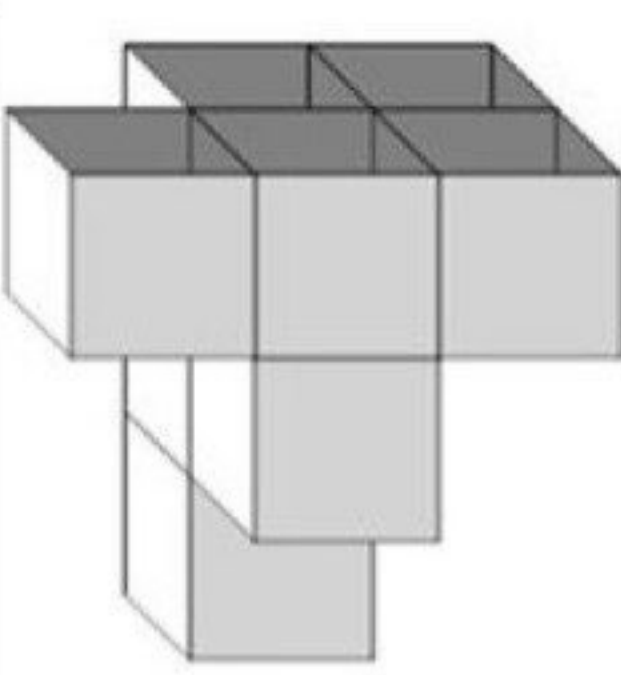
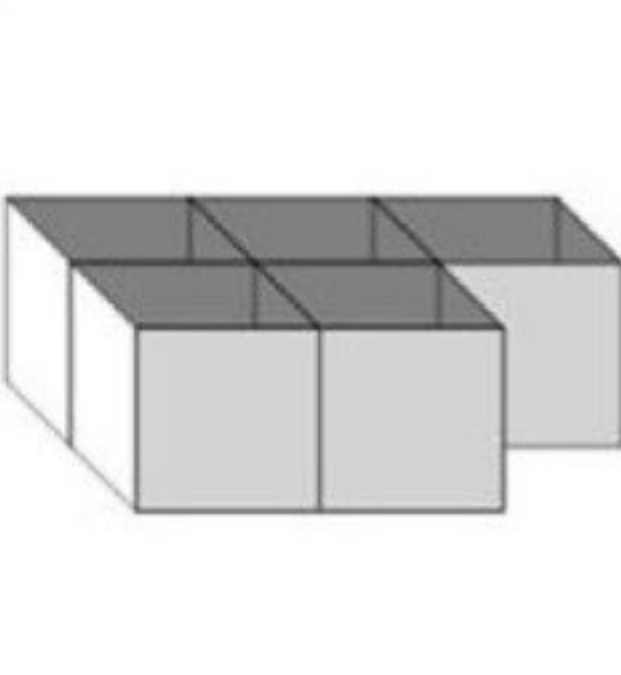
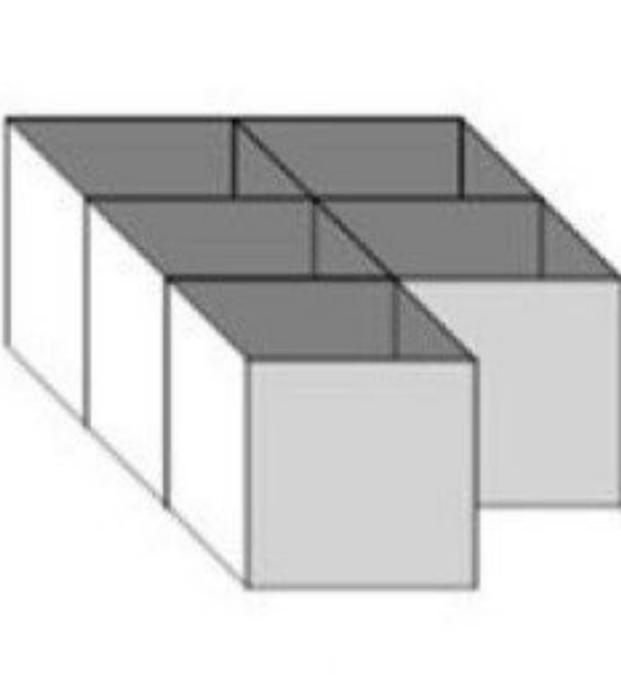
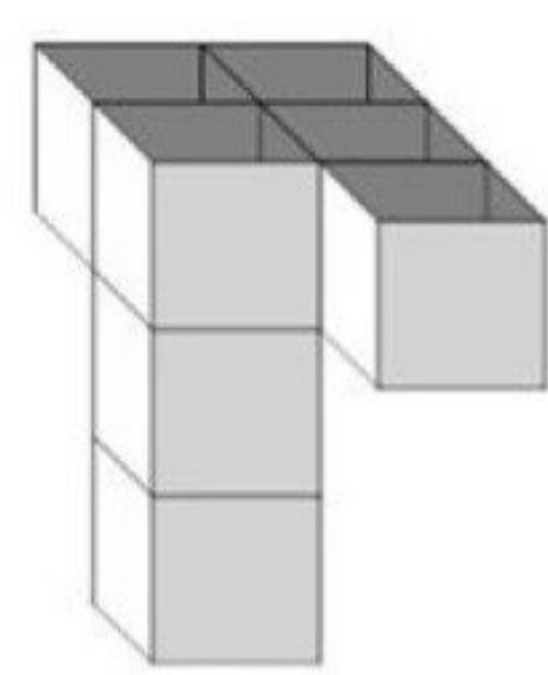
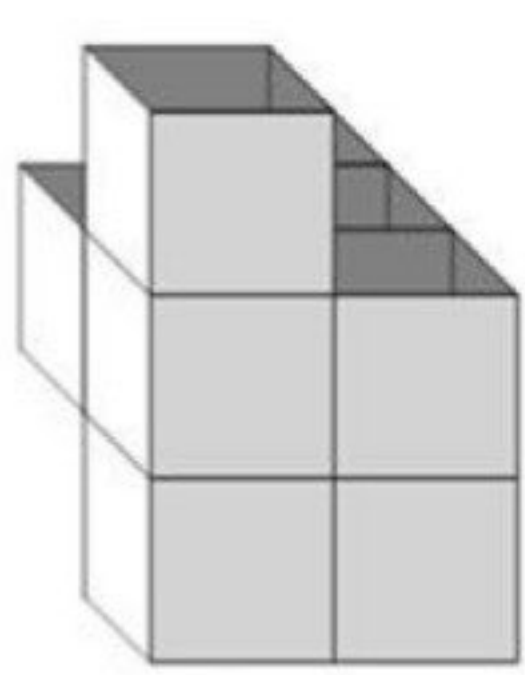
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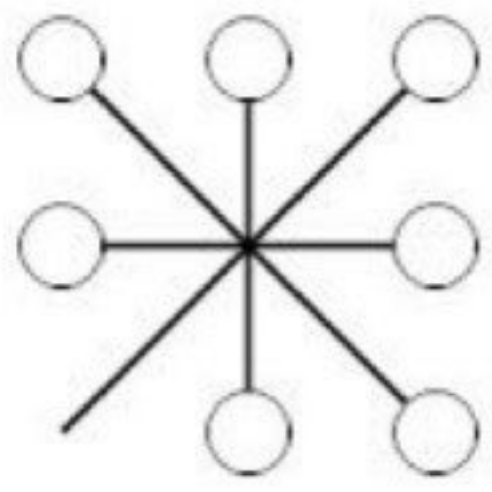
VN-3.B

NVR ODD ONE OUT

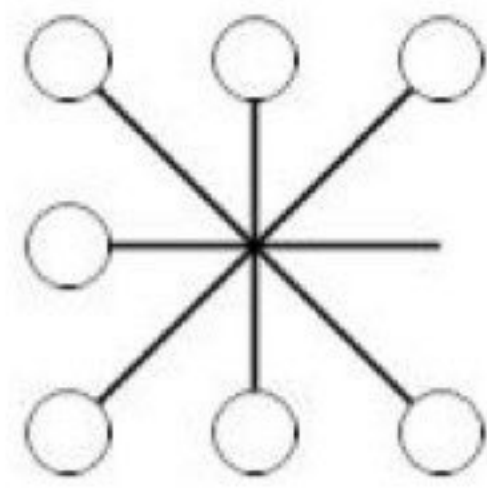
5 QUESTIONS

Look at the shapes below. One of the shapes is most unlike the others. Choose which one.

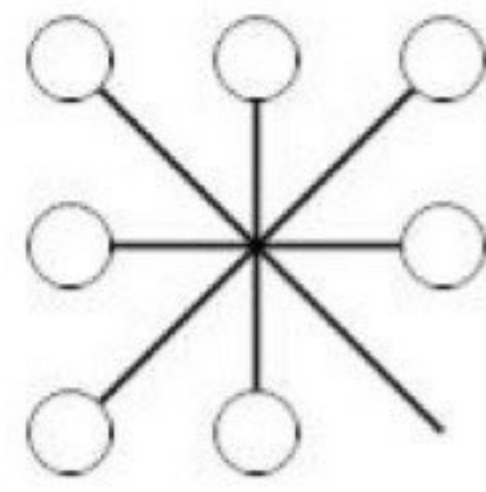
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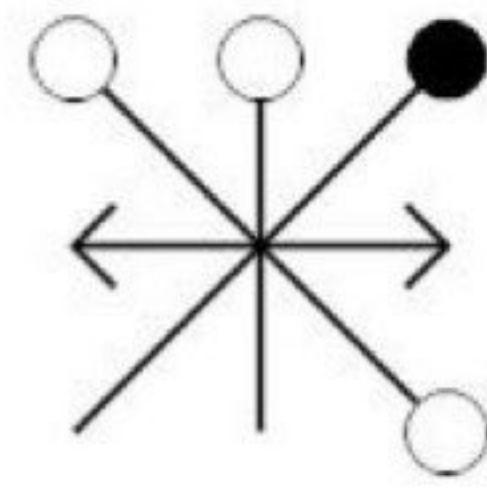
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A



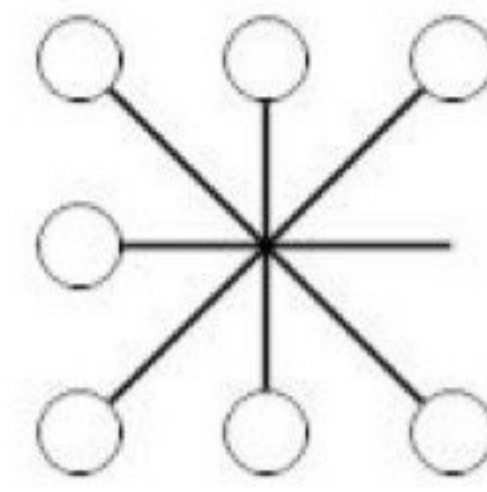
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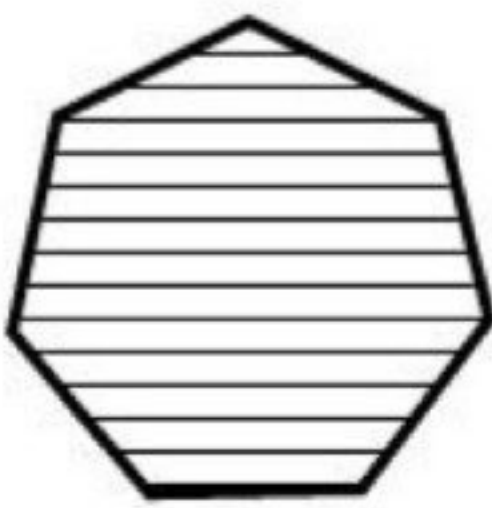


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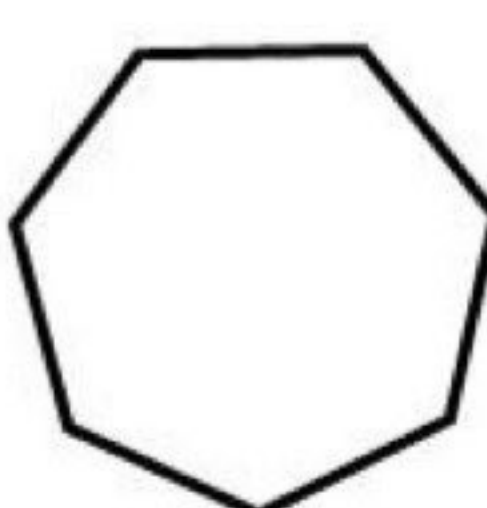


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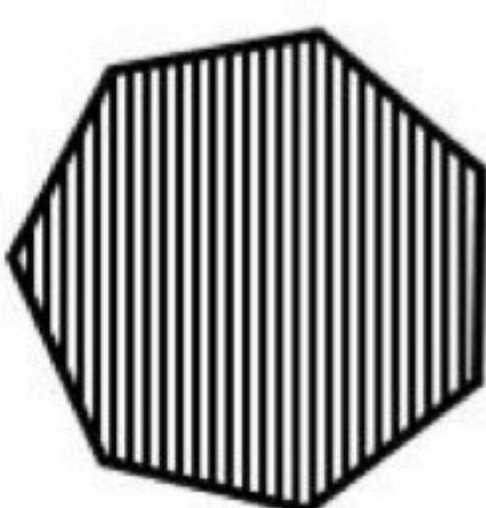
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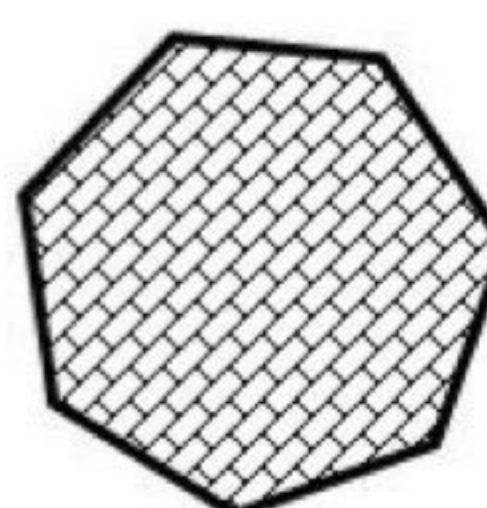
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B



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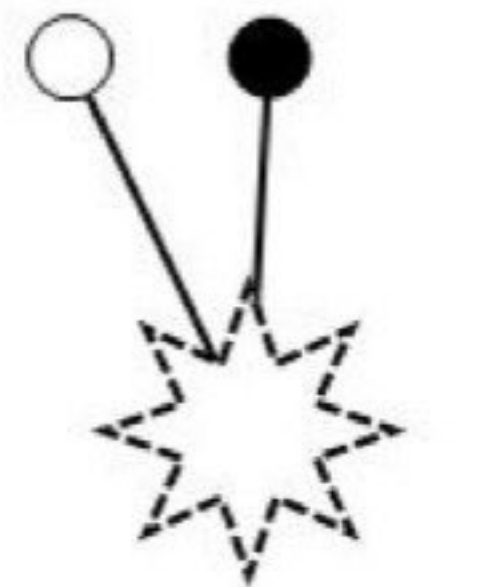


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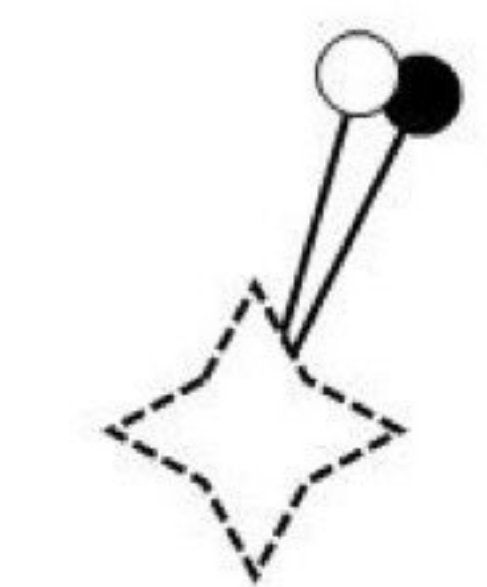


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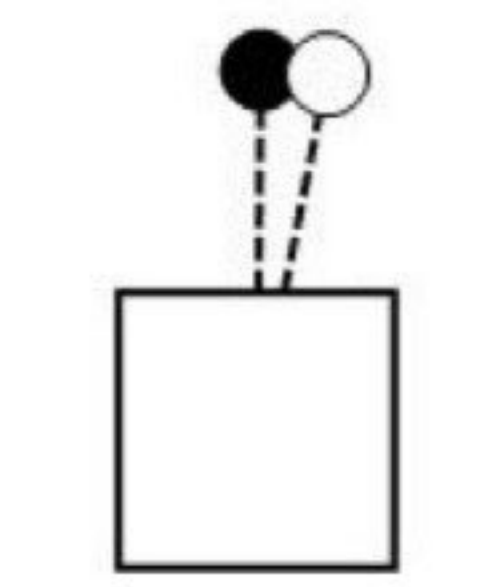
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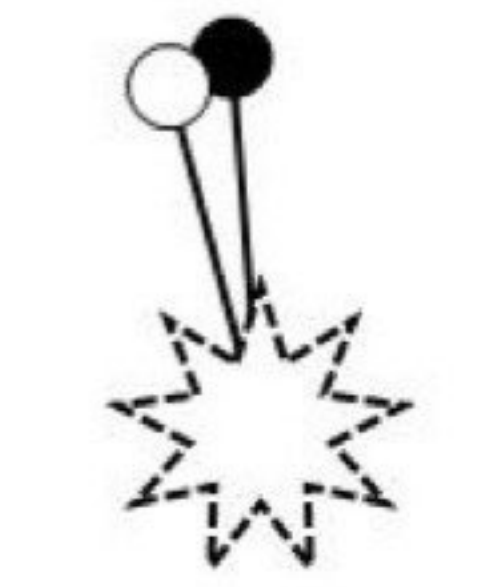
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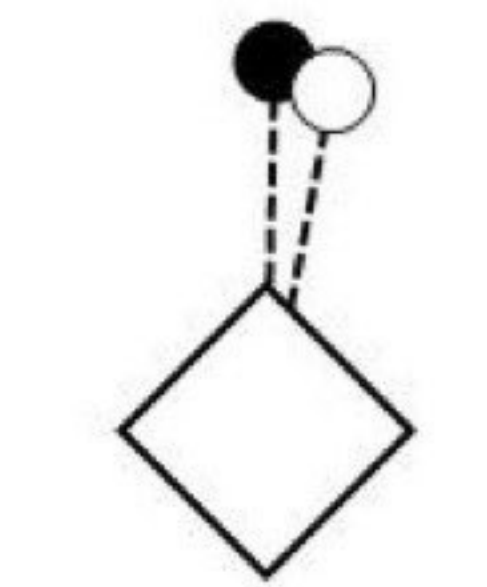
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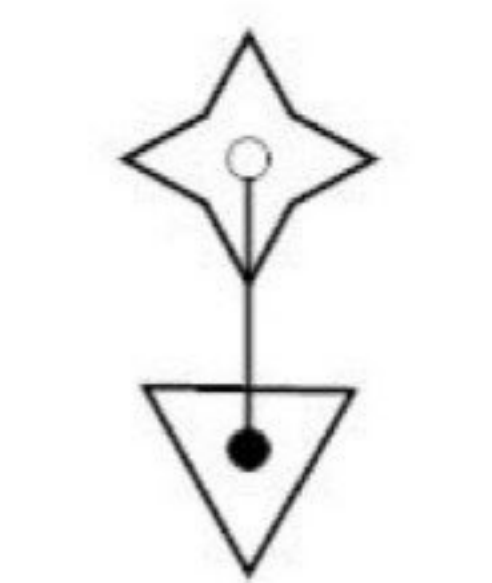


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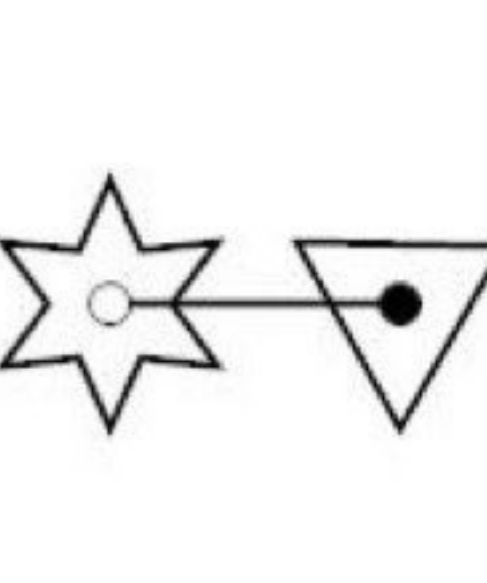


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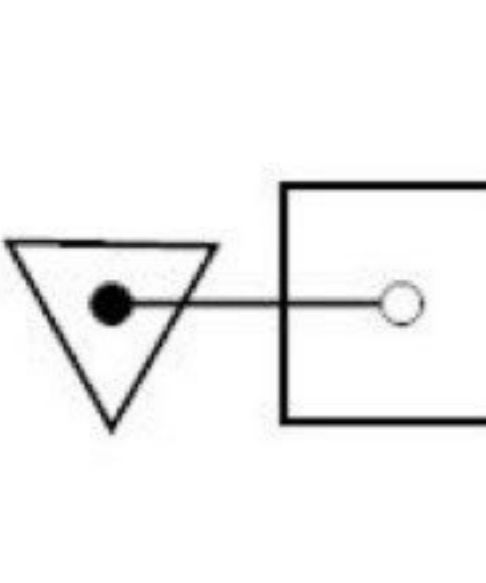
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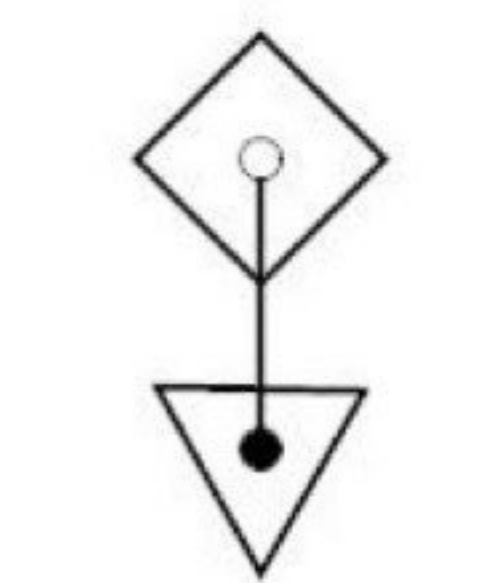
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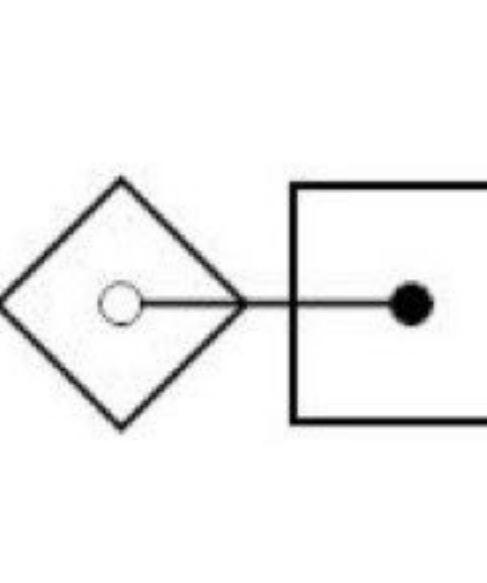
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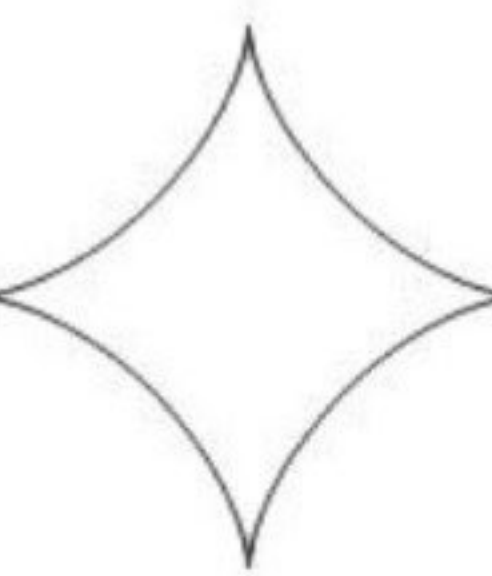


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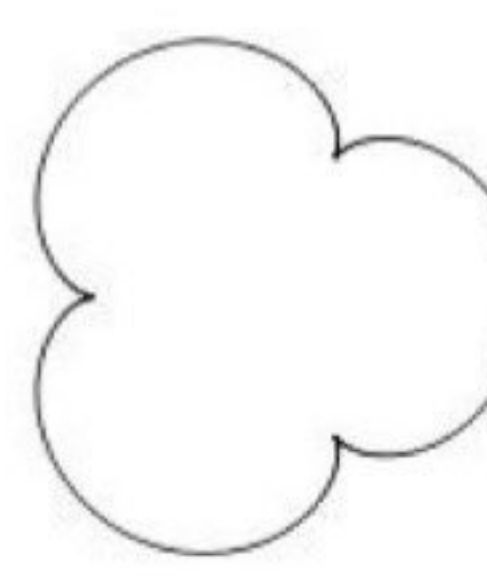


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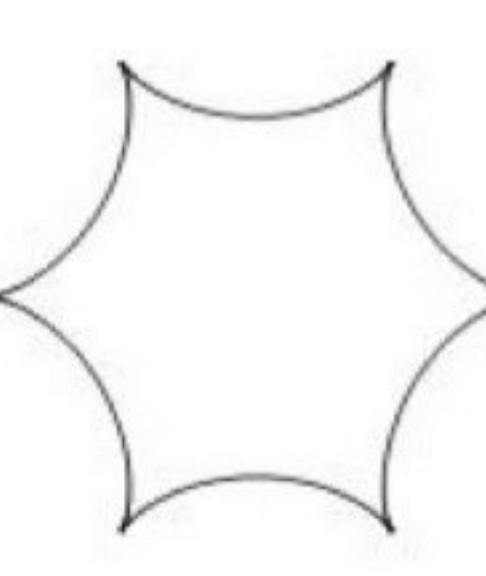
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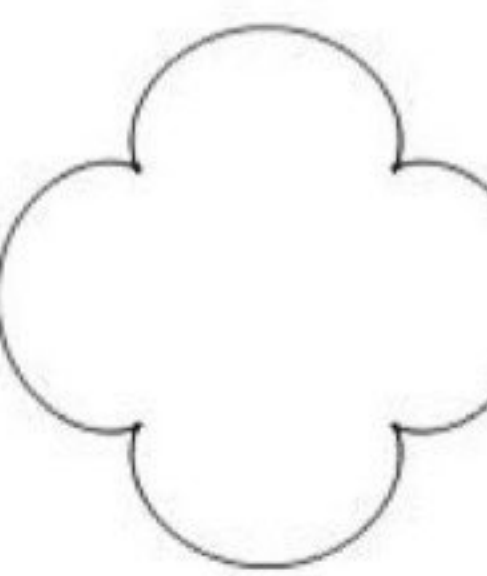
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VN-3.C

NVR ROTATIONAL SYMMETRY

5 QUESTIONS

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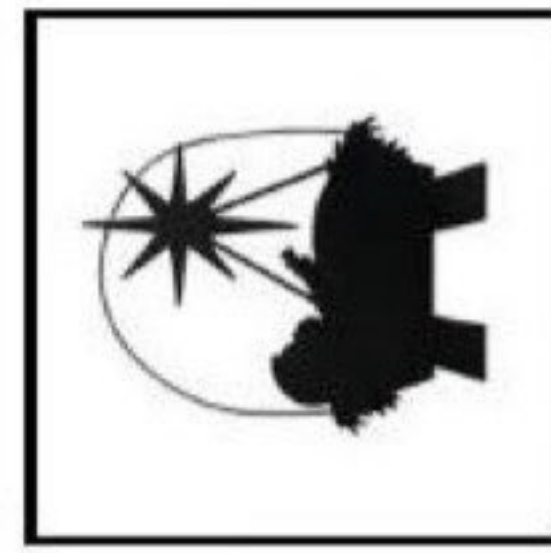
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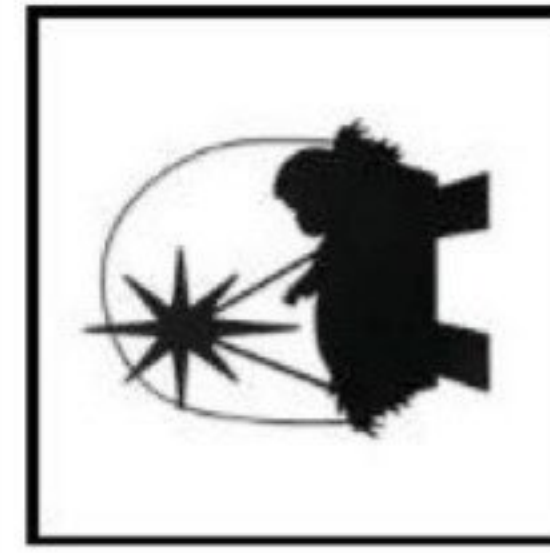
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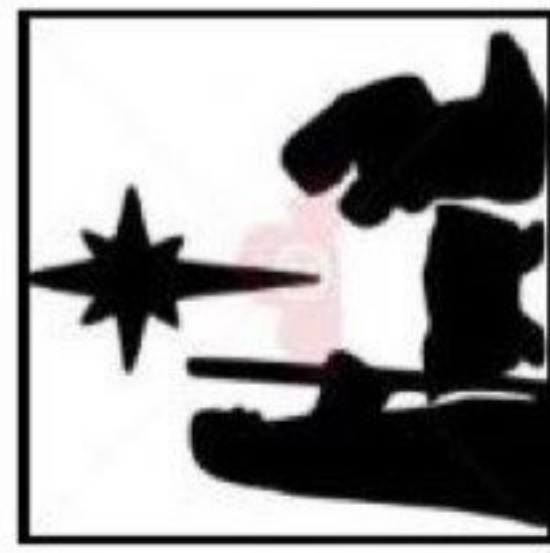


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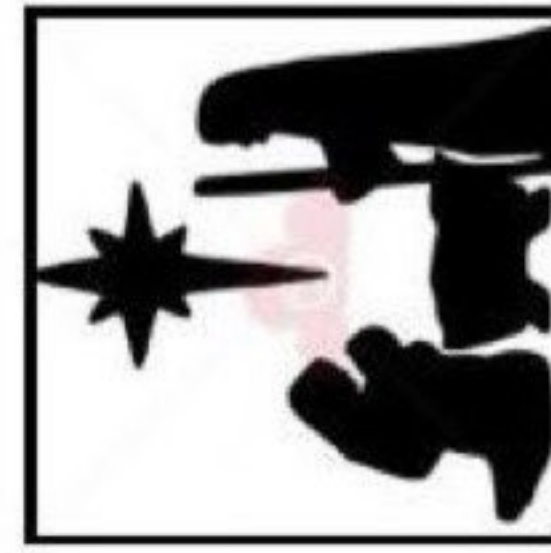
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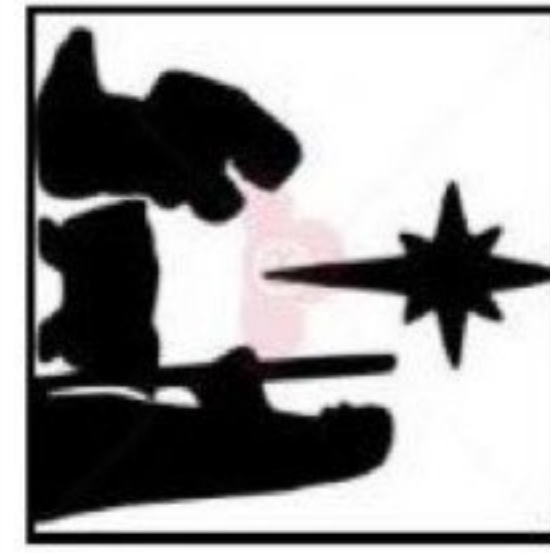
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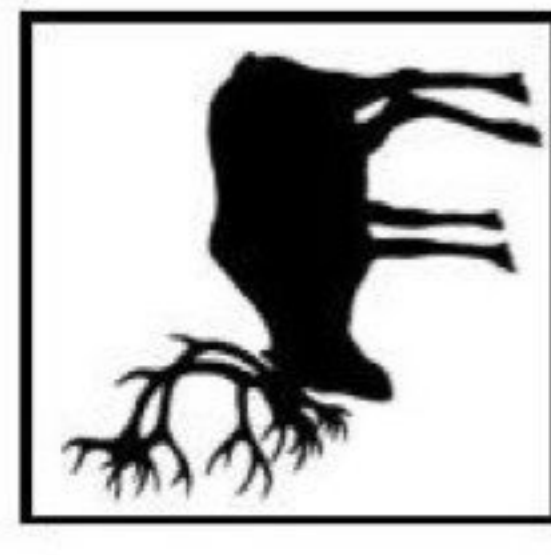
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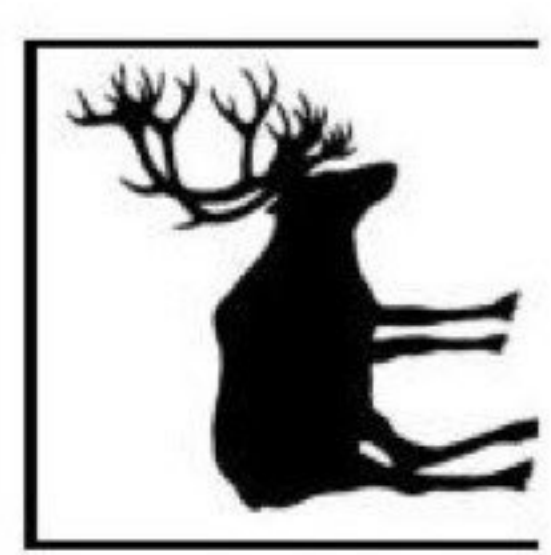
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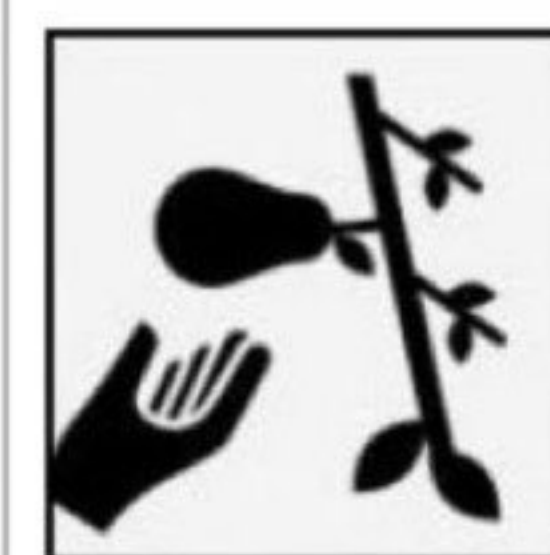
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E

GO TO NEXT PAGE

	VN-3.D	NVR CODES	5 QUESTIONS																		
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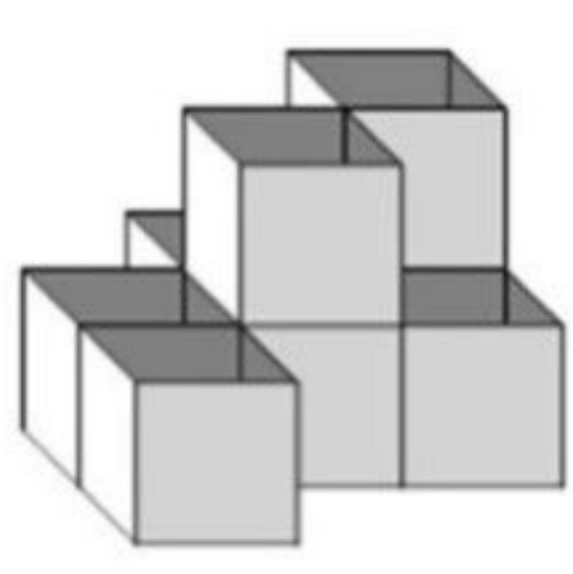
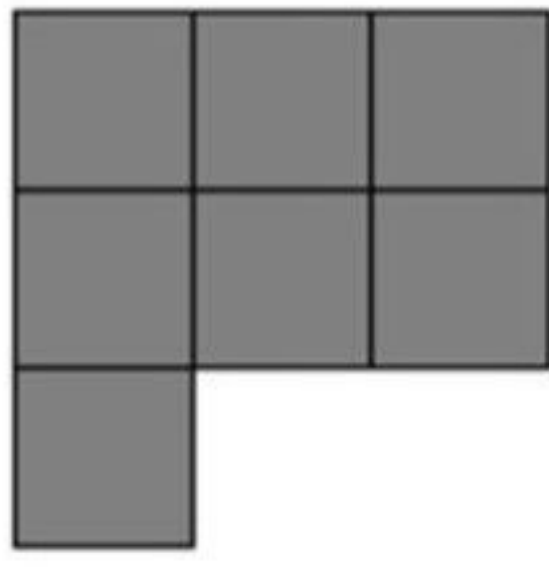
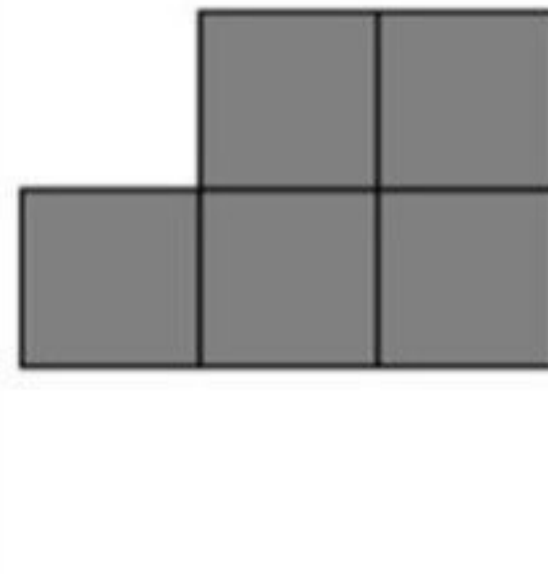
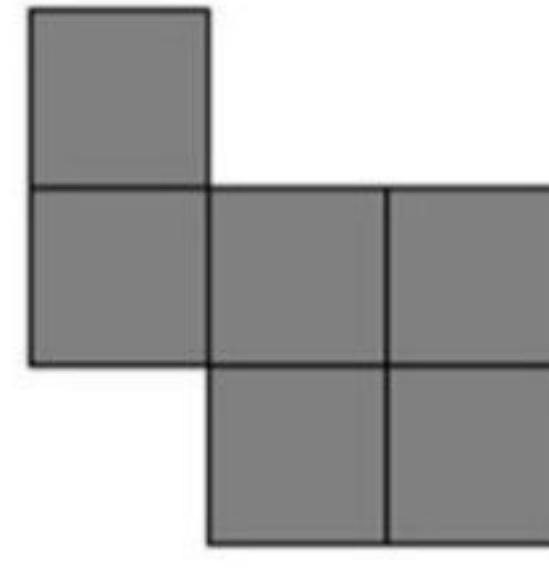
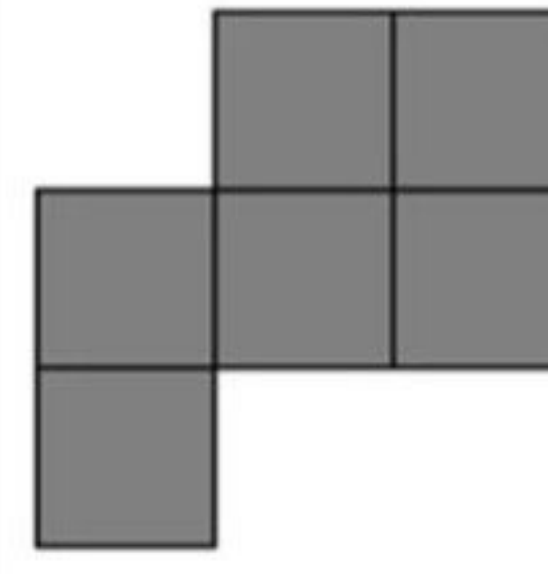
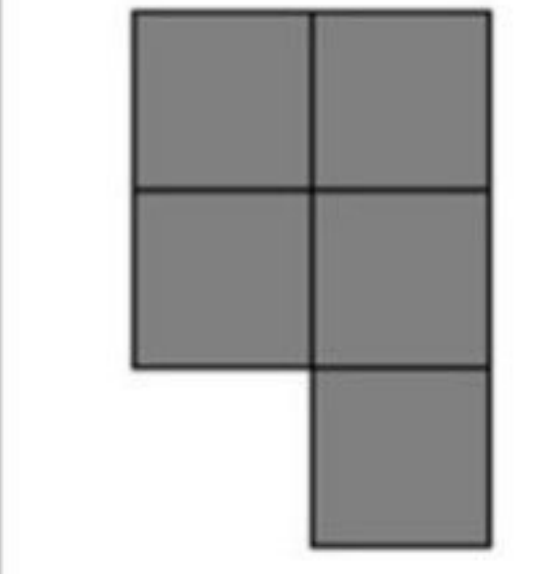
VN-3.E

NVR 3D PLAN VIEW

5 QUESTIONS

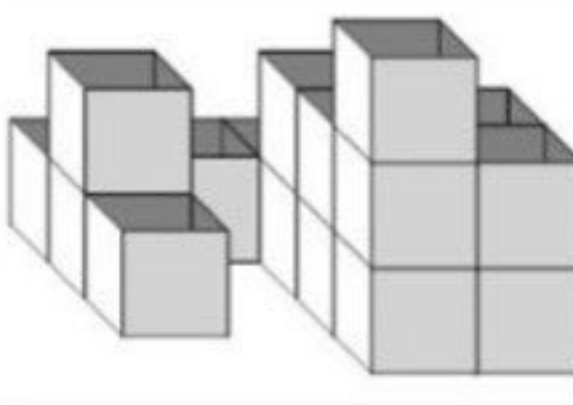
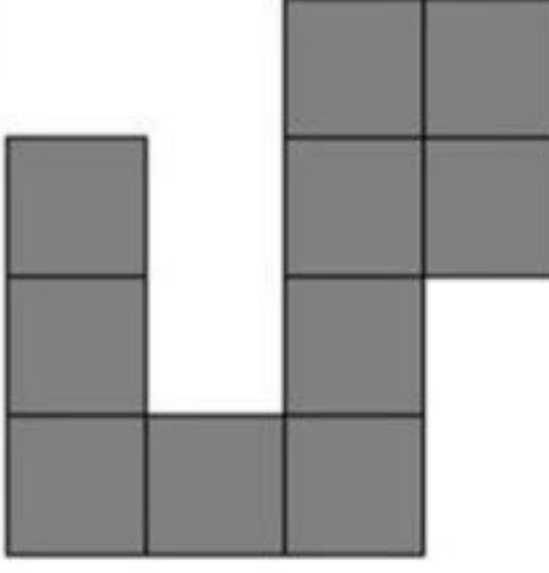
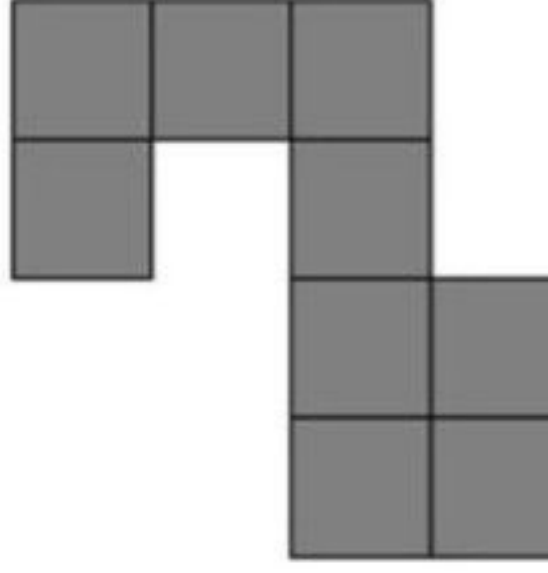
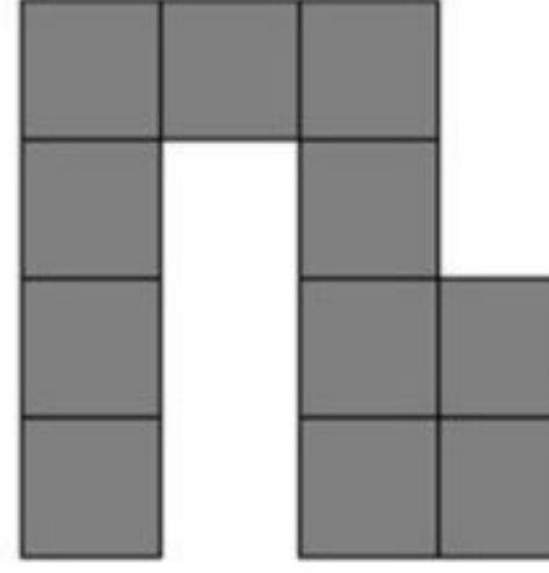
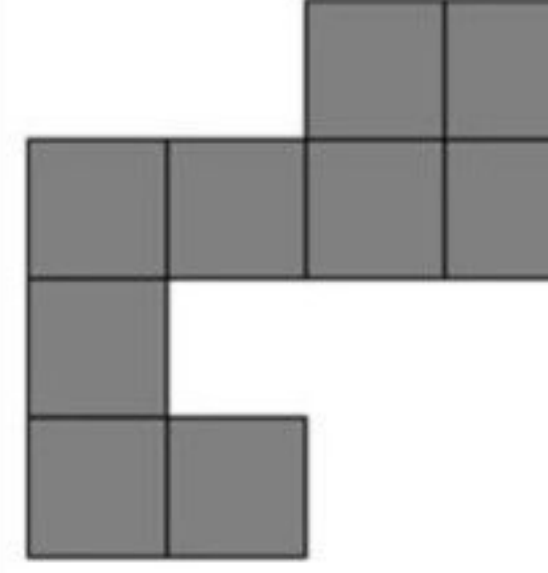
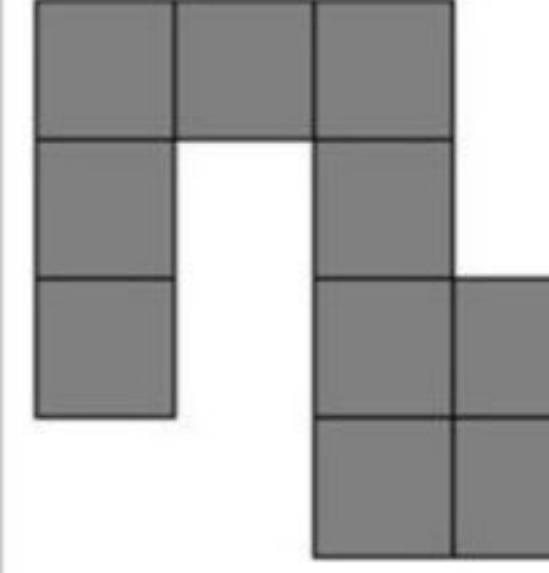
Select the shape from the options given which is a birds-eye view (plan view) of the shape on the left.

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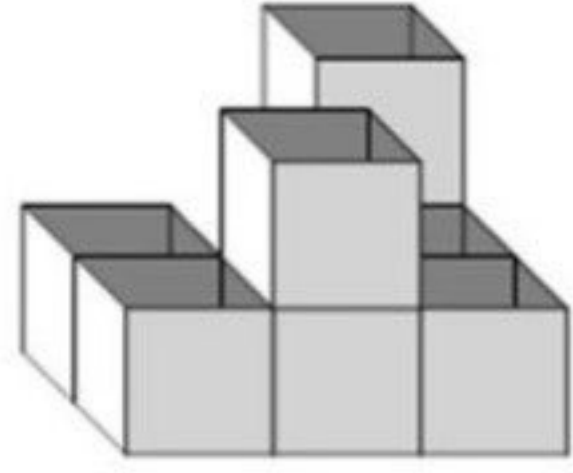
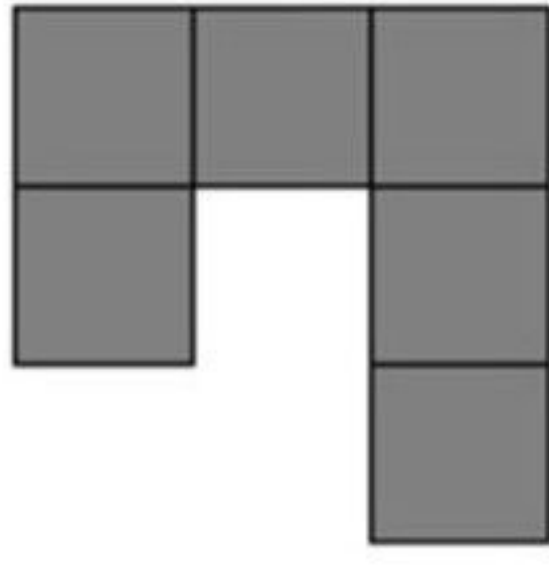
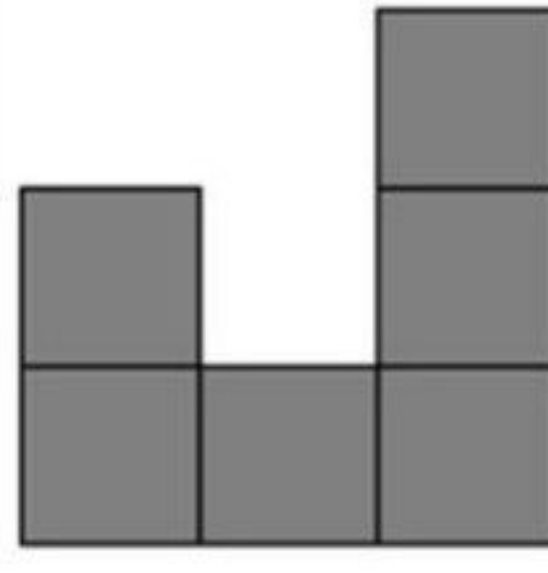
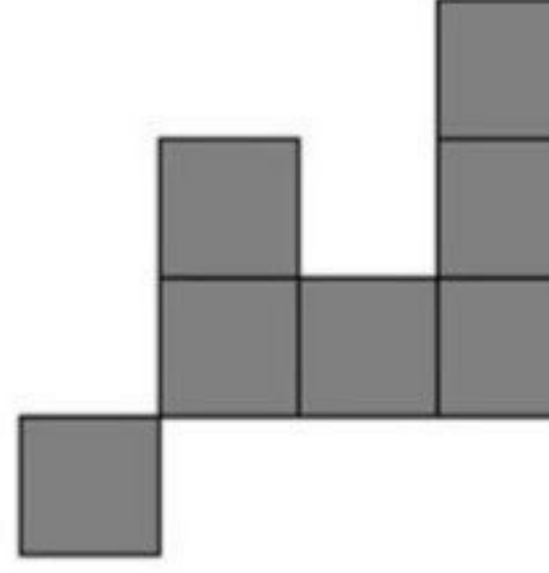
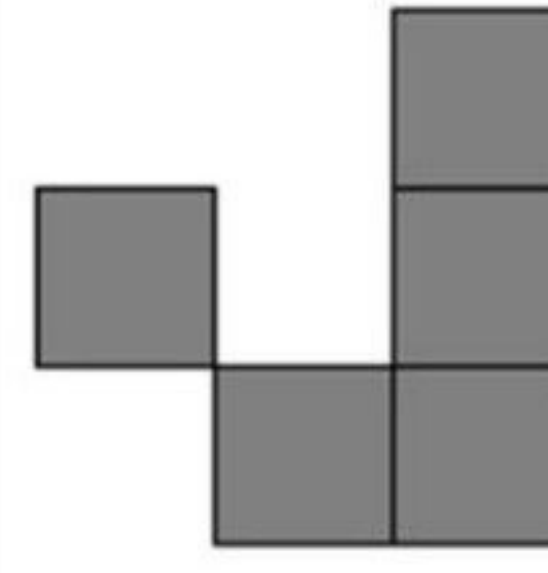
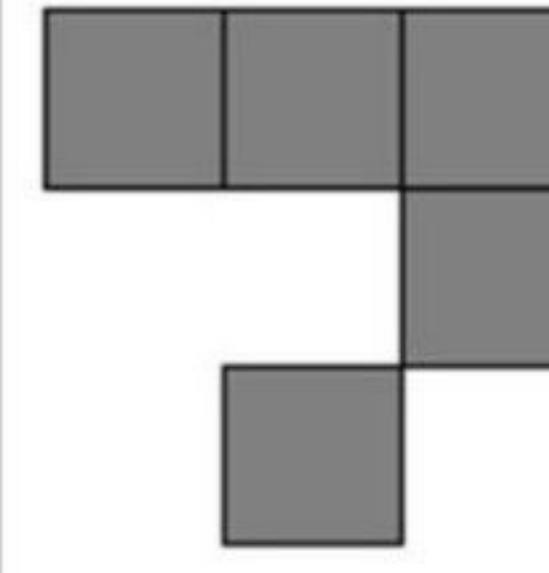
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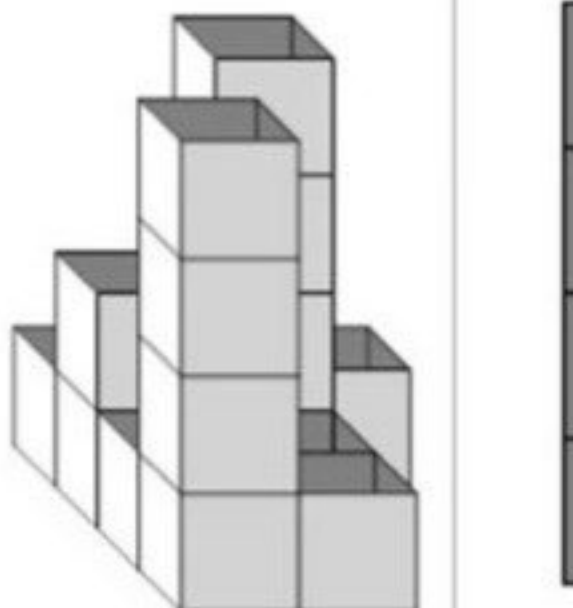
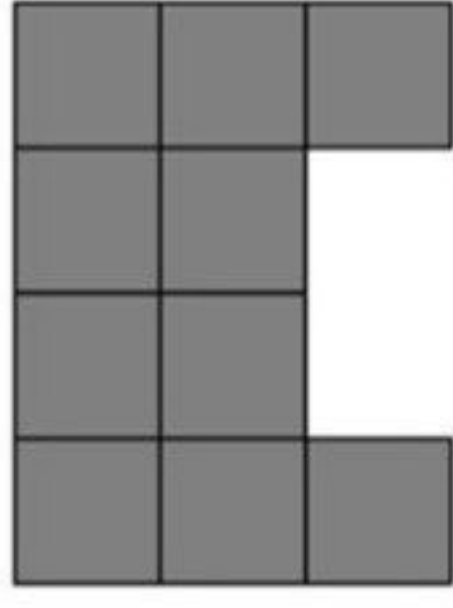
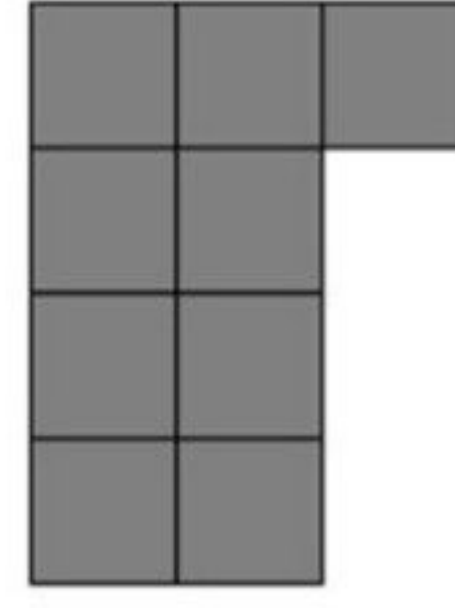
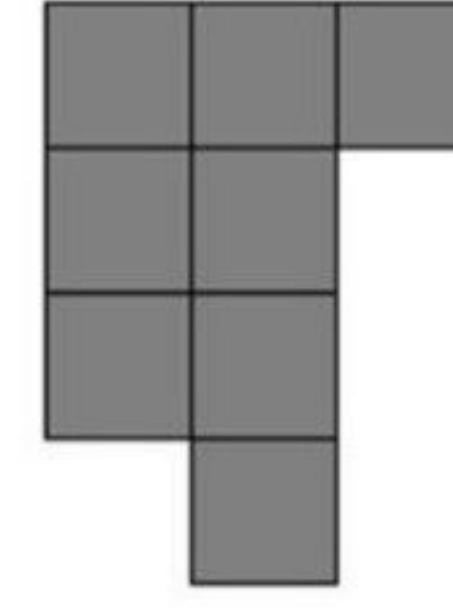
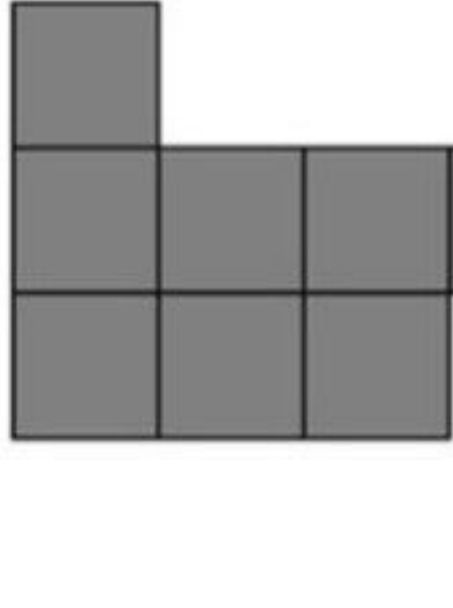
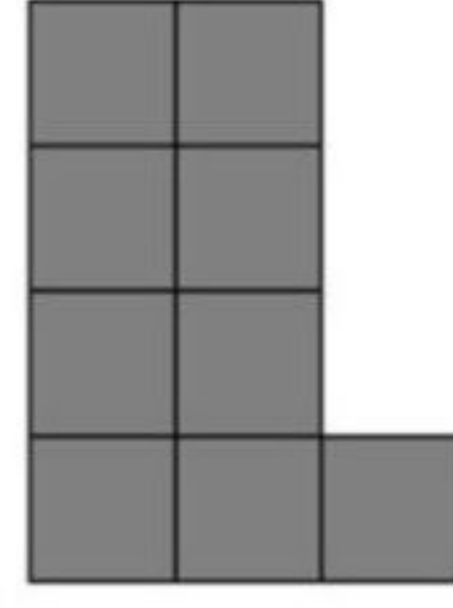
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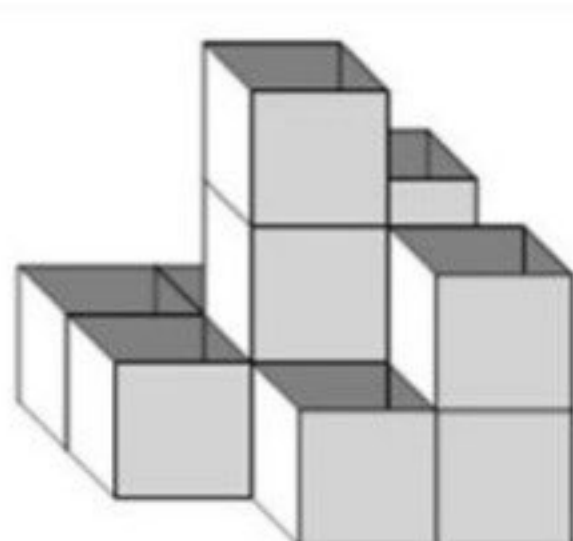
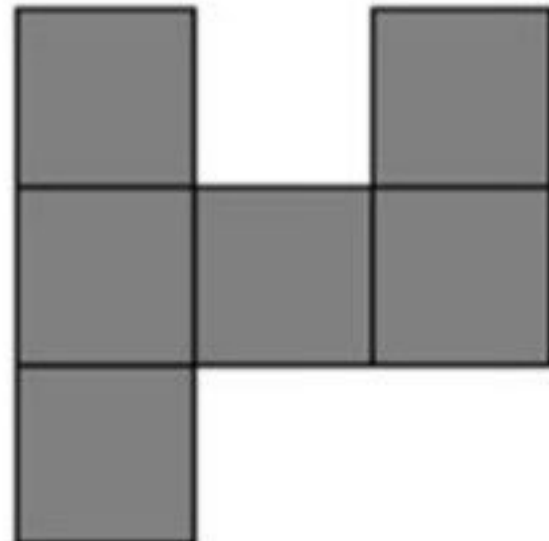
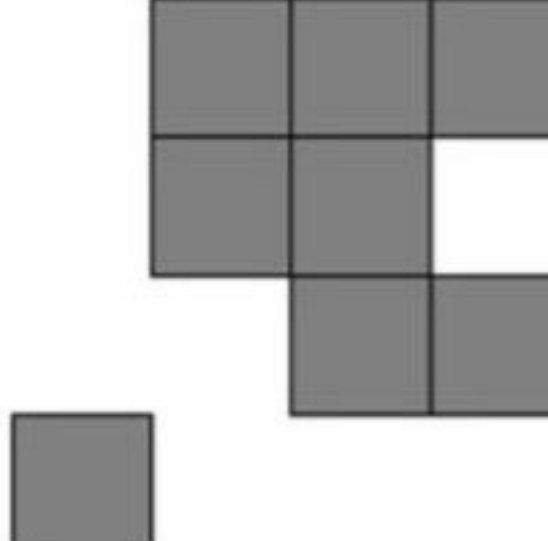
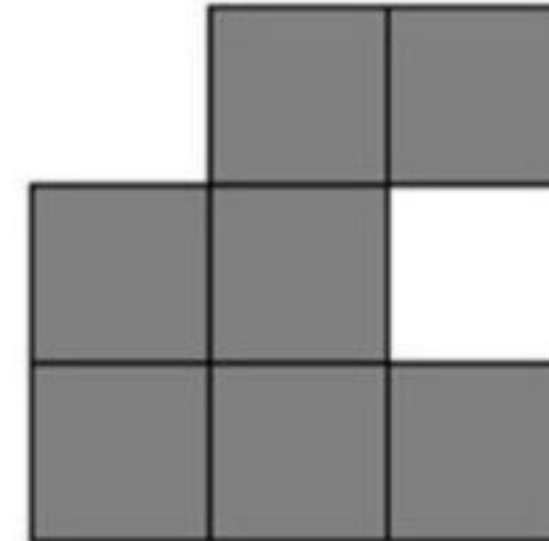
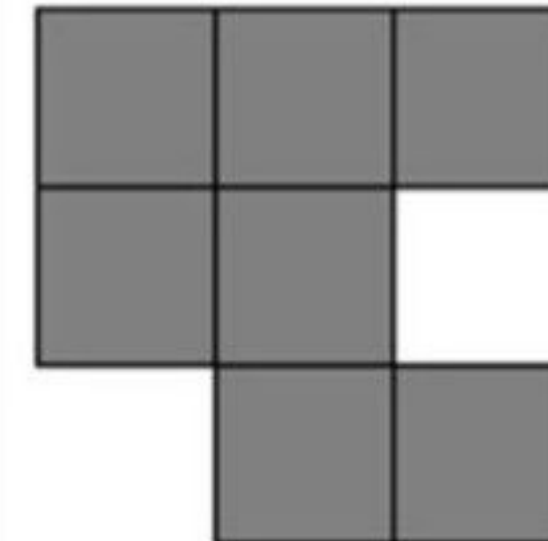
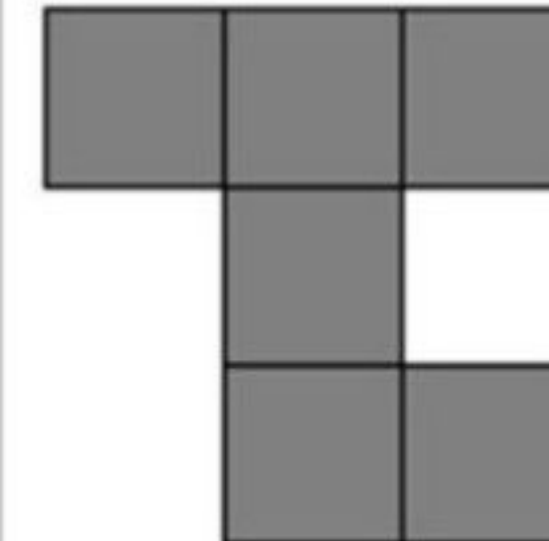
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END

11+ Mock Exam

DL-19-002-B

Multiple-Choice Question Paper

Read the following carefully:

- This is a multiple-choice paper in which you have to mark your answer to each question on the separate answer sheet. You should mark only one answer for each question.
- Mark the answer clearly. If you make a mistake, rub it out as completely as you can and put in your new answer.
- There are three sections in this paper. Each section is timed and may have different number of questions.
- Be sure to keep your place in the correct question on the answer sheet. Mark your answer in the box that has the same number as the question in the booklet.
- The answers should be marked on the answer sheet provided. Do not mark your answers on the question paper.
- Make sure you mark the answer in the correct column matching the question number.
- If you find a question difficult, do not spend too much time on it. Move on to the next question and come back to it later.

80 Multiple Choice Questions to be completed in 50 minutes

Section 1 – 30 Questions to be completed in 20 minutes

Section 2 – 25 Questions to be completed in 15 minutes

Section 3 – 25 Questions to be completed in 15 minutes

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EN-1.A	LONG COMPREHENSION	20 QUESTIONS
<p>Read through the passage very carefully. We recommend that you spend at least five minutes reading and re-reading the following material before you begin to answer the questions that follow. Shade your answer on the answer sheet by choosing one of the options A-E.</p>		

(Tibet – The forbidden land)

At the summit of the world and the entrance to the heavens, lies Tibet. Its other boundaries are: China on the east: Burma, Bhutan and Nepal on the South: and India on the west. Political boundaries, however, are of little and only temporary importance as they seldom remain unchanged from century to century. From the earliest times a nation which increased in strength, has always extended its domain at the expense of its neighbours.

The earth's summit, on the other hand, remains unchanged, if we disregard the continual work performed by rain and streams, weather and wind, which tends to fill up the hollows with mud and sand, to cut the valleys ever deeper, and to diminish the mountain masses by weathering. However powerfully these forces may have acted, Tibet still remains the highest mountain land of the world.

Two rivers stream eastwards out of Tibet: the Yellow River (the Hwang-ho), which falls into the Yellow Sea, and the Blue River (the Yang-tse-kiang), which empties its waters into the Eastern Sea. Other rivers run southwards, the Mekong into the China Sea, the Salwin, Irawaddy and Brahmaputra into the great inlet of the Indian Ocean which is called the Bay of Bengal. A large quantity of water runs off to the Ganges, which comes down from the upper valleys of the Himalayas. And, far to the west, you find two rivers with which you may be acquainted with: the Indus, which flows southwards into the Arabian Sea, and the Tarim, which runs north and east and falls into Lop-nor.

The Himalayas are the loftiest mountain range on earth, and among their crests rise the highest peaks in the world. Three of them should be remembered, for they are so well known: Mount Everest, which, with its 29,000 feet, is the highest summit in the world; Kanchenjunga (28,200 feet), and Dhwlagiri (26,800 feet). Mount Godwin-Austen in the Karakorum is only about 650 feet lower than Mount Everest.

The Himalayas present a grand spectacle when seen from the south. No other mountain region in the world can compete with its awe-inspiring beauty. If you travel by rail from Calcutta up to Sikkim you see the snow-clad crest of the Himalayas in front of you, and Kanchenjunga like a dazzling white pinnacle surmounting the whole. You can also see the sharply defined snow limits, and the steep, wooded slopes below. If it is early in the morning and the weather is fine, the jagged, snowy crest shines brightly in the sun, while the flanks and valleys are still hidden in dense shadow. And during the journey to the great heights you would notice that the flora changes much in the same way as it does from South Italy to the North Cape. The last forms

32 of vegetation to contend against the cold are mosses and lichens. Then we come to the snow
limit, where the mountains and rocks are bare.

34 North and Central Tibet have a mean elevation of 16,000 feet; that is to say, one is almost
always at a greater height than the summit of Mont Blanc, where the plateau country is so
36 exceedingly high the mountain ranges seem quite insignificant. We have spoken of five great
ranges, but between these are many smaller ones, all running east and west.

38 You know, of course, that Asia is the largest division of land in the world, and that Europe is
little more than a peninsula jutting out westwards from the trunk of Asia. Indeed, Asia is not
40 much smaller than Europe, Africa, and Australia put together. Of the millions of people who
inhabit the world, more than half, live in Asia. If, now, you take out your atlas and compare
42 southern Europe and southern Asia, you will find some very curious similarities. From both
these continents three large peninsulas point southwards. The Iberian Peninsula, consisting of
44 Spain and Portugal, corresponds to the Arabian Peninsula, both being quadrangular and massive.
Italy corresponds to the Indian Peninsula, both having large islands near their extremities,
46 Sicily and Ceylon. The Balkan Peninsula corresponds to further India (the Malay Peninsula),
both having irregular, deeply indented coasts with a world of islands to the south-east, the
48 Archipelago and the Sunda Islands.

Tibet may be likened to a fortress surrounded by mighty ramparts. To the south the ramparts
50 are double, the Himalayas and the Trans-Himalaya, and between the two is a moat partly filled
with water, the Upper Indus and the Upper Brahmaputra. And Tibet is really a fortress and a
52 defence in the rear of China. It is easily conceivable that a country surrounded by such huge
mountain ranges must be very difficult of access, and the number of Europeans who have
54 crossed Tibet is very small.

1	<p>Which countries border Tibet to the south?</p> <ul style="list-style-type: none">A. Burma, Bhutan, NepalB. Burma, Bhutan, ChinaC. India, China, BhutanD. Nepal, India, ChinaE. Burma, Bhutan, Nepal and China
2	<p>What country is named as the highest mountain land in the world?</p> <ul style="list-style-type: none">A. NepalB. SwitzerlandC. AlpsD. BhutanE. Tibet
3	<p>Which river flows into the China Sea?</p> <ul style="list-style-type: none">A. Yellow RiverB. Blue RiverC. IrawaddyD. MekongE. Brahmaputra
4	<p>Which river flows north and east and into Lop-nor?</p> <ul style="list-style-type: none">A. Yellow RiverB. TarimC. IrawaddyD. MekongE. Kingkong
5	<p>Which is the second highest mountain mentioned in the passage?</p> <ul style="list-style-type: none">A. EverestB. KanchenjungaC. DhwagiriD. K2E. Godwin-Austen
6	<p>What is the mean elevation of Northern and Central Tibet?</p> <ul style="list-style-type: none">A. 18,000 feetB. 16,000 feetC. 14,000 feetD. 6,000 feetE. 4,000 feet

7	<p>How much of the world's population live in Asia?</p> <ul style="list-style-type: none">A. Less than halfB. More than halfC. 24 per centD. Three quartersE. One quarter
8	<p>Which three large Asian peninsulas point southwards?</p> <ul style="list-style-type: none">A. Arabian Peninsula, the Malay Peninsula and the Indian PeninsulaB. Iberian Peninsula, the Malay Peninsula and the Indian PeninsulaC. Balkan Peninsula, the Iberian Peninsula and the Malay PeninsulaD. Balkan Peninsula, the Indian Peninsula and the Malay PeninsulaE. Indian sub-continent, Sri Lanka and the Arabian Peninsula
9	<p>In the final paragraph what does the term "<i>conceivable</i>" mean?</p> <ul style="list-style-type: none">A. Unlikely to occurB. born in natural circumstancesC. capable of being understoodD. To believe in the unexpectedE. A miracle
10	<p>Why have very few Europeans crossed Tibet?</p> <ul style="list-style-type: none">A. It is very difficult to accessB. Its unpopular and mountainousC. The climate is very cold and severeD. Tibet is like a fortress and visitors are discouraged from visitingE. There are no direct flights to the area
11	<p>In line 49, what does "<i>surrounded by mighty ramparts</i>" mean in context of Tibet?</p> <ul style="list-style-type: none">A. Tibet is a beautiful placeB. Tibet is a cold countryC. Tibet is surrounded by enemiesD. Tibet has a mighty historyE. Tibet is like a fort with natural fortifications
12	<p>Based on the description of Tibet's location, altitude and surrounding geography, what kind of weather would you expect in Tibet?</p> <ul style="list-style-type: none">A. Tropical with a lot of rainB. Cold most of the yearC. Warm sandy beachesD. Desert with hot daysE. Mediterranean climate

13	<p>In what way does the Author compare the similarities in geography of Europe and Asia?</p> <ul style="list-style-type: none">A. The weather systemB. Mountains and plateausC. Population and countriesD. Shape and number of peninsulasE. Rivers and waterway
14	<p>What is the meaning of the word "<i>Archipelago</i>" in line 48?</p> <ul style="list-style-type: none">A. Group of riversB. Group of citiesC. Group of continentsD. Group of islandsE. Group of mountains
15	<p>According to the passage, which of the following will be the last forms of vegetation you will see as you go up the mountains?</p> <ul style="list-style-type: none">A. Mosses and lichensB. Coniferous treesC. Shrubs and small treesD. Valleys of flowersE. Tundra grasslands
16	<p>In line 5, the Author suggests that Nations extend at "<i>the expense of its neighbours</i>". What does this mean?</p> <ul style="list-style-type: none">A. The neighbouring nations suffer the environmental damage of expansionB. The neighbours have to pay the expense of expansionC. The neighbours are sent the bill of expensesD. The land for expansion comes from the neighboursE. The resources for expansion are traded with the neighbour
17	<p>In line 21, the Author suggests that Mount Everest is the highest "<i>summit</i>" in the world. The word "<i>summit</i>" here means "peak". Which of the following is an alternative meaning for the word "<i>summit</i>".</p> <ul style="list-style-type: none">A. MeetingB. PointyC. WhiteD. ClimaxE. Difficult

-
- 18 To which mountain does the Author compare the mean elevation of Tibet to?
- A. Mount Everest
 - B. Mount Godwin-Austen
 - C. Kanchenjunga
 - D. Dhwagiri
 - E. Mont Blanc
-
- 19 If you were sent to Tibet to survey and draw an accurate map of the country, what would your profession be?
- A. Cartographer
 - B. Photographer
 - C. Transistor
 - D. Philanderer
 - E. Adventurer
-
- 20 According to this passage, which of the following is true?
- A. Asia is not much smaller than Europe, Africa, and Australia put together
 - B. Asia is not much bigger than Europe, Africa, and Australia put together
 - C. Asia is the smallest division of land in the world including Europe and Africa
 - D. Asia is a peninsula of Europe
 - E. Asia is one of the three large south pointing peninsulas
-

GO TO NEXT PAGE

EN-1.B**SHORT COMPREHENSION****10 QUESTIONS**

Carefully read through the passage below and answer all the questions that follow. Shade your answer on the answer sheet by choosing one of the options A-E.

1 The International Space Station (ISS) is a space station, or a habitable artificial
2 satellite, in low Earth orbit. Its first component launched into orbit in 1998, and
3 the ISS is now the largest human-made body in low Earth orbit and can often be
4 seen with the naked eye from Earth. The ISS consists of pressurised modules,
5 external trusses, solar arrays, and other components. ISS components have been
6 launched by Russian Proton and Soyuz rockets, and American Space Shuttles. The
7 ISS serves as a microgravity and space environment research laboratory in which
8 crew members conduct experiments in biology, human biology, physics, astronomy,
9 meteorology, and other fields. The station is suited for the testing of spacecraft
10 systems and equipment required for missions to the Moon and Mars. The ISS
11 maintains an orbit with an altitude of between 330 and 435 km (205 and 270 mi) by
12 means of re-boost manoeuvres using the engines of the Zvezda module or visiting
13 spacecraft. It completes 15.54 orbits per day. The ISS is the ninth space station
14 to be inhabited by crews, following the Soviet and later Russian Salyut, Almaz, and
15 Mir stations as well as Skylab from the US. The station has been continuously
16 occupied for more than 16 years since the arrival of Expedition 1 on 2 November
17 2000. This is the longest continuous human presence in low Earth orbit, having
18 surpassed the previous record of 9 years and 357 days held by Mir. The station is
19 serviced by a variety of visiting spacecraft: the Russian Soyuz and Progress, the
20 American Dragon and Cygnus, the Japanese H-II Transfer Vehicle, and formerly
21 the Space Shuttle and the European Automated Transfer Vehicle. It has been
22 visited by astronauts, cosmonauts and space tourists from 17 different nations.
23 After the U.S. Space Shuttle programme ended in 2011, Soyuz rockets became the
24 only provider of transport for astronauts at the International Space Station, and
25 Dragon became the only provider of bulk cargo return to Earth.

21	<p>On a clear night, how can you see the (ISS) International Space Station?</p> <ul style="list-style-type: none">A. You cannot see the ISS from the earthB. With a telescopeC. With a pair of powerful binocularsD. With a radio telescopeE. You can see it with the naked eye
22	<p>Which of the following was used to launch the components of the ISS?</p> <ul style="list-style-type: none">A. SoyuzB. ApolloC. DragonD. MirE. Progress
23	<p>Which of the following is now the only transport for astronauts to the ISS?</p> <ul style="list-style-type: none">A. SoyuzB. ApolloC. DragonD. MirE. Progress
24	<p>Which of the following is not a field of experiments on board the ISS?</p> <ul style="list-style-type: none">A. BiologyB. PalaeontologyC. PhysicsD. AstronomyE. Meteorology
25	<p>ISS holds the record for longest human presence in orbit. Which space station comes second?</p> <ul style="list-style-type: none">A. SalyutB. SoyuzC. ZvezdaD. MirE. Dragon
26	<p>Why do you think the ISS is suited for the testing of spacecraft systems and equipment required for missions to the Moon and Mars?</p> <ul style="list-style-type: none">A. It is closer to Moon and MarsB. It offers a space environment similar to Moon and MarsC. It is nice and quietD. It is cheaper for the testing as the ISS is already in spaceE. It has a fully equipped laboratory

27	<p>Which of the following is not true?</p> <ul style="list-style-type: none">A. The ISS is the eighth space station to be inhabited by crewB. The ISS consists of pressurised modules, trusses, and solar arraysC. The ISS serves as a space research laboratoryD. It has been continuously occupied for more than 10 yearsE. It completes less than 16 orbits per day
28	<p>Astronauts from how many different nations have visited the ISS?</p> <ul style="list-style-type: none">A. FifteenB. TwentyC. NineteenD. SeventeenE. Twenty five
29	<p>How long has ISS been continuously occupied?</p> <ul style="list-style-type: none">A. Less than fifteen yearsB. More than sixteen yearsC. Approximately 10 yearsD. Less than ten yearsE. Not clear from the passage
30	<p>Which of the following statements is not true?</p> <ul style="list-style-type: none">A. ISS is the ninth space stationB. ISS hold the record for longest continuous human presence in orbitC. ISS components were launched by Proton and Soyuz rockets and US Space ShuttleD. ISS completes more than 16 orbits per dayE. ISS serves as a microgravity laboratory

GO TO NEXT PAGE

SECTION B

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VN-1.A		VOCABULARY			5 QUESTIONS	
Select the word that is <i>CLOSEST</i> in meaning to the definition given. Shade your answer on the answer sheet by choosing one of the options A-E.						
31	Attractive because of being unusual and especially old-fashioned					
	A	B	C	D	E	
	QUAINT	QUIET	QUIT	QUIT	FAINT	
32	A colleague or a fellow member of an organization					
	A	B	C	D	E	
	COMMAND	COMRADE	COURAGE	PARADE	TROUPE	
33	Something you want and plan to do					
	A	B	C	D	E	
	INVENTION	INNOVATION	INTENTION	INCISION	IMPAIR	
34	Knowing or being familiar with a person					
	A	B	C	D	E	
	ACQUIRE	PRIOR	TREATED	ACQUAINTED	PREDICT	
35	A person who is one of the first people to do something					
	A	B	C	D	E	
	FIRST	LEADER	GENERAL	MASTER	PIONEER	

VN-1.B		VR SUMS WITH LETTERS			5 QUESTIONS	
For the following questions, numbers have been allocated to letters. Work out the answer to the sum. Shade your answer on the answer sheet by choosing one of the options A-E.						
Question	A = 3, B = 6, C = 23, D = 9, E = 31, $B \times D - C = [\quad]$					
Answer	E					
36	A = 8, B = 7, C = 22, D = 11, E = 4 $D - B + E = [\quad]$					
	A	B	C	D	E	

37 $A = 18, B = 4, C = 8, D = 23, E = 14$

$B \times C - E = [\quad]$

A	B	C	D	E
---	---	---	---	---

38 $A = 15, B = 12, C = 9, D = 36, E = 2$

$C + A + B = [\quad]$

A	B	C	D	E
---	---	---	---	---

39 $A = 20, B = 4, C = 7, D = 31, E = 18$

$A + C + B = [\quad]$

A	B	C	D	E
---	---	---	---	---

40 $A = 24, B = 2, C = 31, D = 23, E = 6$

$D + E + B = [\quad]$

A	B	C	D	E
---	---	---	---	---

VN-1.C

WORD FAMILY

8 QUESTIONS

In the following questions, you are given five words. Find ONE word that is different from the rest. Shade your answer on the answer sheet by choosing one of the options A-E.

41	A	B	C	D	E
	FRESH	RAW	RIPE	ROTTEN	FRUIT

42	A	B	C	D	E
	APPLES	PEARS	ORANGES	YELLOW	MELONS

43	A	B	C	D	E
	UNDERCOOKED	OVERCOOKED	UNRIPE	RIPE	TRIPE

44	A	B	C	D	E
	BAKE	BOIL	COOK	GRILL	ROAST

45	A	B	C	D	E
	BITTER	BLAND	SWEET	SALTY	FLAVOUR

46	A	B	C	D	E
	PALM	THUMB	WRIST	FINGERS	LEG
47	A	B	C	D	E
	DRESS	GLOVES	JACKET	SHIRT	CLOTH
48	A	B	C	D	E
	SHOES	TRAINERS	GLOVES	SANDALS	SNEAKERS

VN-1.D	VR TYPE X5	7 QUESTIONS		
<p>If the words given below were written BACKWARDS and then put into ALPHABETICAL order: which word would be THIRD? Shade your answer on the answer sheet.</p>				

49	A	B	C	D	E
	ADVENT	ADDITION	ADMITTED	ACTIVATED	ACCESSED
50	A	B	C	D	E
	DISMAL	DESPAIR	DISMISSES	DECREASES	DECIDED
51	A	B	C	D	E
	OVERALL	OPPRESSES	OPERATE	OFFSET	OVERLAP
52	A	B	C	D	E
	CONTINENT	CHANGE	CONTAIN	CHARACTER	CANNOT
53	A	B	C	D	E
	STAGGER	STAGGERED	SERVER	STRUGGLED	SPOTTED
54	A	B	C	D	E
	SPEEDING	SHIFTS	SPHERE	STRIPPING	STRENGTH

55	A	B	C	D	E
	PLENTY	PENALTY	PUZZLED	PEOPLE	PEDANT

GO TO NEXT PAGE

SECTION C

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SECTION A : NUMERICAL REASONING

Answer the questions below. Shade your answer on the answer sheet by choosing one of the options A-E.

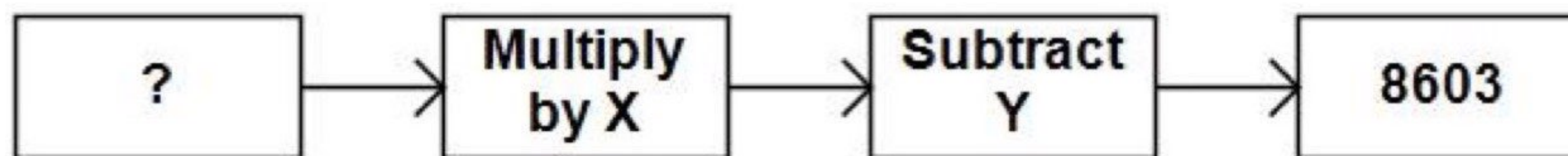
56 Look at the five sets of numbers below:

SET - A	49	64	169
SET - B	83	1	73
SET - C	173	125	1
SET - D	100	53	107
SET - E	83	49	167

Which of the sets has SQUARE NUMBER - PRIME NUMBER - PRIME NUMBER in that order?

A	B	C	D	E
A	B	C	D	E

57 In the number machine shown below if $X = 11$ and $Y = 593$ then what number was put into the machine to start with?



A	B	C	D	E
839	834	840	836	845

58 Lilly gets \$1.10 as pocket money every week. In how many weeks will Lilly save \$8.00?

A	B	C	D	E
12	11	16	10	8

59 Calculate the following: $(66 \times 45) + 78$

A	B	C	D	E
3048	1444	1257	2435	2121

60 What sum of money multiplied by 15 equals \$255.00?

A	B	C	D	E
\$16.00	\$11.00	\$17.00	\$18.00	\$14.00

61 How many days are there in total in August and June?

A	B	C	D	E
57	116	61	43	16

62 What is 46×73 ?

A	B	C	D	E
3354	3362	3355	3356	3358

63 Select ONE prime number from the following options.

A	B	C	D	E
15	42	74	53	64

64 Martha wants to send a package to Kyrgyzstan. Royal Mail charges \$4.70 for the first 400 grams and \$0.10 for each additional 25 grams or part thereof. What could be the weight in grams of the package if Martha pays \$5.70 ?

A	B	C	D	E
613 grams	486 grams	458 grams	608 grams	631 grams

65 Which of the following numbers are multiples of 18, 16 and 4?

A	B	C	D	E
157	189	201	105	288

66 What is $873 + 956$?

A	B	C	D	E
1828	1819	1829	1830	1838

67 How many times greater is 228 than 19?

A	B	C	D	E
11	12	30	10	16

68 Select ONE odd number from the following options.

A	B	C	D	E
3242	1542	3487	6904	4940

69 In a sequence of numbers the first number is Eight and each number after the first is Three more than Five times the preceding number. What is the Third number in the sequence?

A	B	C	D	E
221	223	217	211	218

70 Select ONE square or cube number from the following options.

A	B	C	D	E
400	350	287	210	139

71 If 55% of a number is 715, then what is the number?

A	B	C	D	E
1300	2075	1557	2447	2394

72 Eva was born in 1943. Jasmine is 8 years younger than Eva. How old was Jasmine in 2012?

A	B	C	D	E
51	53	61	59	56

73 What is the perimeter of a regular pentagon (in cm) with sides measuring 9 cm?

A	B	C	D	E
45	79	80	51	83

74 In a sports club with 32 members, 18 enjoy Badminton and 12 enjoy Football and 9 do not indulge in either. How many members enjoy both Badminton and Football?

A	B	C	D	E
7	4	8	11	2

75 What is the LCM (Lowest Common Multiple) of 4 and 25?

A	B	C	D	E
53	100	103	88	35

76 How many halves are there in 76?

A	B	C	D	E
85	48	25	36	38

77 Multiply Sixty Seven with Three Hundred and Ninety Five

A	B	C	D	E
26451	26465	26421	26471	26419

78 Increase \$10.00 by 70%.

A	B	C	D	E
\$30.00	\$22.00	\$26.00	\$17.00	\$36.00

- 79 Paige works 7 hours per day on Saturday, Monday and Wednesday, and 9 hours per day on Thursday and Sunday. She does not work on Tuesday and Friday. She earns \$448.50 per week. How much does she earn per hour?

A	B	C	D	E
\$8.50	\$12.50	\$11.50	\$13.50	\$14.50

- 80 What is the Place Value of Nine in 1779264 ?

A	B	C	D	E
Hundred-Million	Tens	Hundred-Thousands	Units	Thousands


GO TO NEXT PAGE

Pupil ID

Pupil Name

Date of Birth

Venue

- Check that you are marking the answer for the correct question number.
- Shade ONE answer only unless specified.
- Use an HB pencil and rub out any errors thoroughly.
- Shade boxes like this: 


1	A B C D E	2	A B C D E	3	A B C D E	4	A B C D E	5	A B C D E	6	A B C D E	7	A B C D E	8	A B C D E	9	A B C D E	10	A B C D E
11	A B C D E	12	A B C D E	13	A B C D E	14	A B C D E	15	A B C D E	16	A B C D E	17	A B C D E	18	A B C D E	19	A B C D E	20	A B C D E
21	A B C D E	22	A B C D E	23	A B C D E	24	A B C D E	25	A B C D E	26	A B C D E	27	A B C D E	28	A B C D E	29	A B C D E	30	A B C D E
31	A B C D E	32	A B C D E	33	A B C D E	34	A B C D E	35	A B C D E	36	A B C D E	37	A B C D E	38	A B C D E	39	A B C D E	40	A B C D E
41	A B C D E	42	A B C D E	43	A B C D E	44	A B C D E	45	A B C D E	46	A B C D E	47	A B C D E	48	A B C D E	49	A B C D E	50	A B C D E
51	A B C D E	52	A B C D E	53	A B C D E	54	A B C D E	55	A B C D E	56	A B C D E	57	A B C D E	58	A B C D E	59	A B C D E	60	A B C D E
61	A B C D E	62	A B C D E	63	A B C D E	64	A B C D E	65	A B C D E	66	A B C D E	67	A B C D E	68	A B C D E	69	A B C D E	70	A B C D E
71	A B C D E	72	A B C D E	73	A B C D E	74	A B C D E	75	A B C D E	76	A B C D E	77	A B C D E	78	A B C D E	79	A B C D E	80	A B C D E

Pupil ID

Pupil Name

Date of Birth

Venue

- Check that you are marking the answer for the correct question number.
- Shade ONE answer only unless specified.
- Use an HB pencil and rub out any errors thoroughly.
- Shade boxes like this: 

1	A B C D E	2	A B C D E	3	A B C D E	4	A B C D E	5	A B C D E	6	A B C D E	7	A B C D E	8	A B C D E	9	A B C D E	10	A B C D E
11	A B C D E	12	A B C D E	13	A B C D E	14	A B C D E	15	A B C D E	16	A B C D E	17	A B C D E	18	A B C D E	19	A B C D E	20	A B C D E
21	A B C D E	22	A B C D E	23	A B C D E	24	A B C D E	25	A B C D E	26	A B C D E	27	A B C D E	28	A B C D E	29	A B C D E	30	A B C D E
31	A B C D E	32	A B C D E	33	A B C D E	34	A B C D E	35	A B C D E	36	A B C D E	37	A B C D E	38	A B C D E	39	A B C D E	40	A B C D E
41	A B C D E	42	A B C D E	43	A B C D E	44	A B C D E	45	A B C D E	46	A B C D E	47	A B C D E	48	A B C D E	49	A B C D E	50	A B C D E
51	A B C D E	52	A B C D E	53	A B C D E	54	A B C D E	55	A B C D E	56	A B C D E	57	A B C D E	58	A B C D E	59	A B C D E	60	A B C D E
61	A B C D E	62	A B C D E	63	A B C D E	64	A B C D E	65	A B C D E	66	A B C D E	67	A B C D E	68	A B C D E	69	A B C D E	70	A B C D E
71	A B C D E	72	A B C D E	73	A B C D E	74	A B C D E	75	A B C D E	76	A B C D E	77	A B C D E	78	A B C D E	79	A B C D E	80	A B C D E

DL-19-002-A

1	20	C	$20 \times 20 = 400$
2	22	C	$1862 / 23 = 80$ and remainder is 22
3	16	A	$(11 \times 16) - 99 = 77$
4	1	D	$-6 - (8) = -6 + 8 = 14$, and half of that is 7. Add 7 to -6 to get the midpoint.
5	175	C	Obtuse angle is more than 90 and less than 180 degrees.
6	52	D	$(2/3)78 = 52$
7	19	E	The number 19 appears maximum times in the series.
8	5	A	SQUARE-BASED-PYRAMID has 5 faces.
9	902479	D	Nine Hundred and Two Thousand, Four Hundred and Seventy Nine in numbers is 902479.
10	4	A	Factors of 28 are 1, 2, 4, 7, 14. Factors of 20 are 1, 2, 4, 5, 10.
11	80	A	20% of 1400 is 280. 40% of 500 is 200
12	2254	B	$7 \times 23 \times 14 = 2254$
13	9	A	The factors of 130 are 1, 2, 5, 10, 13, 26, 65
14	04:58 PM	D	
15	121	A	$11 \times 11 = 121$
16	342	E	342 is the LCM of 19 and 18
17	41	B	The value in the middle when arranged in ascending order is 41
18	480	B	60% of 800 is 480
19	396	A	$30 \times 13.2 = 396$
20	449	B	$653 - 204 = 449$
21	\$8.13	C	Evelyn has \$2.71. Since Jessica has Two times as much, Jessica has \$5.42. The total is $\$2.71 + \$5.42 = \$8.13$.
22	22	E	1 metres = 100 cm. $(71 + 151) - 200 = 22$
23	6700	D	$(50.8 - 6700) \times 1000 = 6700$
24	3	A	Factors of 3 are 1. Factors of 87 are 1, 3, 29. Factors of 99 are 1, 3, 9, 11, 33.
25	300	B	10 percent of 900 is $(10 \times 900) / 100 = 90$. 30 percent of the answer should also be equal to 90. This can be calculated as $(90 \times 100) / 30 = 300$.
26	21:32	A	Multiply the ratio of Danish to Lithuanian coins by 7 and ratio of Lithuanian to Liberian coins by 8. This will give you the same number for Lithuanian coins in both ratios. You can now calculate the ratio of Danish to Liberian coins by combining the two ratios.
27	170705	E	$74868 + 95837 = 170705$
28	3	D	Students taking at least one language can be calculated as $10 + 24 - 4 = 30$. Therefore students not enrolled in either courses = $33 - 30 = 3$.
29	32	C	The maximum number of packs which can be made is decided by the maximum number of any one type of sweet required. The maximum type of sweet required is 25. The maximum number of packs therefore is 800 divided by 25 which gives us 32.
30	1160	E	Divide each option by 20
31	B	ATTRACTION	
32	A	INSPIRE	
33	E	SOURCE	
34	A	RARELY	
35	A	QUIT	
36	A	STRENGTHEN	
37	E	CHEERFUL	
38	B	PEACE	
39	A	REVEAL	
40	A	SOLID	
41	D	D	Yacht B is in TOP-LEFT corner, Yacht C is in TOP-RIGHT corner, Yacht D is in BOTTOM-RIGHT corner and A at in the BOTTOM-LEFT corner.
42	C	I	'I' is a Vowel which occurs twice in DIAGNOSTIC but only once in SANDWICHES
43	A	RICE	RICH becomes RICE which then becomes RIDE
44	D	L	Letter 'L' occurs most often in 'APPALLINGLY'
45	C	K	The letter in ELEVENTH position is 'K'
46	A	30	Half of 30 is 15. Therefore $18 + 15 = 33$
47	E	78	Half of 78 is 39. Therefore $27 + 39 = 66$
48	C	A	The letter A occurs twice in UNBEARABLE but once in INTERACTIVE.
49	C	R	Move 'R' create the two new words 'STAY' and 'LATER'.
50	E	R	Move 'R' create the two new words 'FINE' and 'WIDER'.
51	E	Y	Move 'Y' create the two new words 'HARD' and 'UNITY'.
52	E	E	Move 'E' create the two new words 'RANG' and 'PLANE'.
53	B	R	Move 'R' create the two new words 'DAFT' and 'TREND'.
54	D	R	Move 'R' create the two new words 'LEAN' and 'FARCE'.
55	A	A	Move 'A' create the two new words 'BOUT' and 'AMEND'.
56	A	A	
57	E	E	
58	A	A	
59	A	A	
60	D	D	
61	D	D	Each option image has 4 arrows which intersect in the centre. Look at the starting and ending head style of each arrow. 3 arrows should be the same.
62	E	E	The odd one out polygon has one less side than others.
63	A	A	The odd one out is the one in which the smaller round shapes overlap or do not overlap.
64	E	E	Each options has a pair of shapes. One of the shapes in the every pair should be the same. The common shape should have the same type of shading in the centre. The vertical or horizontal orientation of the shapes are not relevant.
65	D	D	The odd one out is a polygon and not a spirograph curve. All others are spirograph curve.

66	D	D	Rotational.
67	A	A	Rotational.
68	D	D	Rotational.
69	B	B	Rotational.
70	A	A	Rotational.
71	A	A	Each shape has two sides of a rectangle. Which two sides of the rectangle are drawn is decided by the first letter. The second letter decided the location of the black roundel. There are 4 possible positions. The roundel can be placed along the vertical o
72	C	C	The first letter decides the line style of the vertical line. The second letter decides the number of black squares.
73	A	A	The first letter decides the main large shape. The second letter decides the orientation of the smaller cloud icon.
74	A	A	The first letter decides the line style of the axis in the centre. The second letter decides types of three shapes in the quadrants. The locations of the shapes are not relevant.
75	B	B	Each shape has two sides of a rectangle. Which two sides of the rectangle are drawn is decided by the first letter. The second letter decides the arrow head styles on the ends of the lines.
76	D	D	
77	E	E	
78	B	B	
79	B	B	
80	D	D	

DL-19-002-B			
1	A	A	NA
2	E	E	
3	D	D	
4	B	B	
5	E	E	
6	B	B	
7	B	B	
8	A	A	
9	C	C	
10	A	A	
11	E	E	
12	B	B	
13	D	D	
14	D	D	
15	A	A	
16	D	D	
17	A	A	
18	E	E	
19	A	A	
20	A	A	
21	E	E	
22	A	A	
23	A	A	
24	B	B	
25	D	D	
26	B	B	
27	A	A	
28	D	D	
29	B	B	
30	D	D	
31	A	QUAINT	
32	B	COMRADE	
33	C	INTENTION	
34	D	ACQUAINTED	
35	E	PIONEER	
36	A	8	
37	A	18	
38	D	36	
39	D	31	
40	C	31	
41	E	FRUIT	
42	D	YELLOW	
43	E	TRIPE	
44	C	COOK	
45	E	FLAVOUR	
46	E	LEG	
47	E	CLOTH	
48	C	GLOVES	
49	B	ADDITION	
50	E	DECIDED	
51	A	OVERALL	
52	C	CONTAIN	

53	D	STRUGGLED	
54	E	STRENGTH	
55	A	PLENTY	
56	D	D	
57	836	D	$(836 \times 11) - 593 = 8603$
58	8	E	In Eight weeks Lilly will save $\$1.10 \times 8 = \8.80 .
59	3048	A	Calculate the following: $(66 \times 45) + 78 = 3048$
60	$\$17.00$	C	15 times $\$17.00$ is $\$255.00$
61	61	C	$31 + 30 = 61$
62	3358	E	$46 \times 73 = 3358$
63	53	D	53 is a prime number.
64	631 grams	E	The cost of sending the parcel can be divided into Initial Charge ($\$4.70$ for first 400 grams) and Variable Increment Charge ($\$0.10$ for every 25 grams or part thereof. Total amount paid by Martha as Variable Increment Charge = $\$5.70 - \$4.70 = \$1.00$. The total increment weight she has paid for = $\$1.00 / \$0.10 = 250$. The maximum parcel weight is therefore = $400 + 250 = 650$ grams. Since the charge is based on part thereof, the actual parcel weight can be 650 grams or up to 25 grams less. The only answer which falls in this range is 631 grams.
65	288	E	18, 16 and 4 are all factors of 288.
66	1829	C	$873 + 956 = 1829$
67	12	B	$19 \times 12 = 228$
68	3487	C	3487 is an odd number.
69	218	E	The Series is: 8,43,218,1093,5468
70	400	A	400 is a square or cube number.
71	1300	A	55% of 1300 is 715.
72	61	C	Eva was born in 1943. Jasmine is 8 years younger and was therefore born in 1951. In 2012, Jasmine will be 61 years old.
73	45	A	$9 \times 5 = 45$ cm
74	7	A	Since there are 32 total members in the club and 9 members do not play either sport, there are 23 members who play at least one sport. Therefore the number of members of who play both sports = $(18 + 12) - 23 = 7$.
75	100	B	Factors of 4 are 1, 2. Factors of 25 are 1, 5
76	38	E	$(1/2)76 = 38$
77	26465	B	$67 \times 395 = 26465$
78	$\$17.00$	D	70% of $\$10.00$ is $\$7.00$
79	$\$11.50$	C	Paige works for 7 hours on 3 days and 9 hours on two days. The total hours worked per week are = $(7 \times 3) + (9 \times 2) = 39$. To get the hourly wage, divide the weekly wage by the number of hours worked - $\$448.50 / 39 = \11.50 .
80	Thousands	E	