National Testing Agency

Question Paper Name :	JEE Main 2021 Paper 2A (B.Arch) Feb 23 Single sitting
Subject Name :	Paper 2A (B.Arch)
Creation Date :	2021-02-22 13:57:02
Duration :	180
Total Marks :	400

Paper 2A (B.Arch)

Group Id :	708191125

Mathematics Section A

Section Number :	1
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80

Question Number : 1 Question Id : 70819111496 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The value of the integral $\int_{-4}^{4}\left|9-x^2\right|dx$ is :

Options :

70819137281. $\frac{121}{3}$

70819137282. $\frac{122}{3}$

70819137283. $\frac{125}{3}$

70819137284. $\frac{128}{3}$

Question Number : 2 Question Id : 70819111497 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The sum of infinite number of terms of a Geometric Progression is 3 and the sum of the squares of its terms is $\frac{9}{2}$. The sum of the cubes of its terms is :

Options :

70819137285. $\frac{31}{13}$

70819137286. $\frac{108}{13}$

70819137287. $\frac{27}{2}$

70819137288. $\frac{54}{7}$

Question Number : 3 Question Id : 70819111498 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which of the following Boolean expression is a tautology ?

Options :

70819137289. $p \Leftrightarrow p \vee q$

70819137290. $(p \wedge q) \Leftrightarrow p$

70819137291. $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819137292. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 4 Question Id : 70819111499 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let $|a|<1$, $|b|<1$, $|c|<1$ and $x=\sum_{n=0}^{\infty} a^n$, $y=\sum_{n=0}^{\infty} b^n$, $z=\sum_{n=0}^{\infty} c^n$. If $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$ are in Arithmetic Progression, then :

Options :

70819137293. a, b and c are in Arithmetic Progression

70819137294. a, b and c are in Geometric Progression

70819137295. a, 2b and c are in Arithmetic Progression

70819137296. a, b and c satisfy $2b^2=ac$

Question Number : 5 Question Id : 70819111500 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

$\sum_{n=1}^{\infty} \frac{2n^2+7n+5}{n!}$ is equal to :

Options :

70819137297. $15e+5$

70819137298. $15e-5$

70819137299. $16e-5$

70819137300. $16e-7$

Question Number : 6 Question Id : 70819111501 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The least positive integral value of λ such that $10^{50}+(3\times(4)^{52})+\lambda$ is divisible by 9 is :

Options :

70819137301. 5

70819137302. 3

70819137303. 7

70819137304. 1

Question Number : 7 Question Id : 70819111502 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

There are 4, 5 and 6 points on the three parallel and co-planar lines. If no set of four or more points is cyclic and no set of three points lying on distinct lines is collinear, then the number of circles passing through exactly three points is :

Options :

70819137305. 455

70819137306. 421

70819137307. 435

70819137308. 441

Question Number : 8 Question Id : 70819111503 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If $y=\frac{ax-b}{(x-1)(x-4)}$ has an extremum at the point $(2,-1)$, then the values of a and b are :

Options :

70819137309. $a=1,\ b=0$

70819137310. $a=0,\ b=1$

70819137311. $a=0,\ b=-1$

70819137312. $a=-1,\ b=1$

Question Number : 9 Question Id : 70819111504 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The distance between the planes $\vec{r}\cdot\left(2\hat{i}+\hat{j}-2\hat{k}\right)+5=0$ and $\vec{r}\cdot\left(6\hat{i}+3\hat{j}-6\hat{k}\right)+2=0$ is :

Options :

70819137313. $\frac{9}{13}$

70819137314. $\frac{15}{4}$

70819137315. $\frac{13}{9}$

70819137316. $\frac{1}{13}$

Question Number : 10 Question Id : 70819111505 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The probability of solving a problem in Mathematics by two students X and Y are $\frac{1}{4}$ and $\frac{1}{5}$ respectively. If both of them try to solve the problem independently, then the probability that the problem will be solved by exactly one of them is equal to :

Options :

70819137317. $\frac{7}{20}$

70819137318. $\frac{1}{20}$

70819137319. $\frac{19}{20}$

70819137320. $\frac{12}{20}$

Question Number : 11 Question Id : 70819111506 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The polar form of the complex number $\frac{1+i}{1-i}$ is equal to :

Options :

70819137321. $\cos\frac{\pi}{2}+i\sin\frac{\pi}{2}$

70819137322. $\cos\frac{\pi}{2}-i\sin\frac{\pi}{2}$

70819137323. $\cos\frac{\pi}{4}+i\sin\frac{\pi}{4}$

70819137324. $\cos\frac{\pi}{4}-i\sin\frac{\pi}{4}$

Question Number : 12 Question Id : 70819111507 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If the equation of a line which divides the line segment joining the points (1, 0) and (3, 0) in the ratio 2 : 1 and is also perpendicular to it, is $ax=7$, then the value of a is equal to :

Options :

70819137325. 2

70819137326. 3

70819137327. 4

70819137328. 1

Question Number : 13 Question Id : 70819111508 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Equation of the circle, which is the mirror image of the circle $x^2+y^2-2x=0$ with respect to the line $x+y=2$, is :

Options :

70819137329. $x^2+y^2-2x+4y+3=0$

70819137330. $x^2+y^2-4x-2y+4=0$

70819137331. $2(x^2+y^2)-x+y+1=0$

70819137332. $x^2+y^2-2x-4y+3=0$

Question Number : 14 Question Id : 70819111509 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Equations of the common tangent of the ellipse $\frac{(x+1)^2}{2^2}+\frac{(y-1)^2}{3^2}=1$ and the circle $(x+1)^2+(y-1)^2=4$ are :

Options :

70819137333. $y+3=0$ and $x-1=0$

70819137334. $x-3=0$ and $y+1=0$

70819137335. $x+3=0$ and $x-1=0$

70819137336. $y+3=0$ and $y-1=0$

Question Number : 15 Question Id : 70819111510 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If $A=\begin{bmatrix}1 & a\\ 0 & 1\end{bmatrix}$, then A^k $(k\in N)$ is :

Options :

70819137337. $\begin{bmatrix}1 & ka\\ 0 & 1\end{bmatrix}$

70819137338. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819137339. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819137340. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819111511 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The values of s and t, for which the system of equations

$$x_1 + x_2 + x_3 = 5$$
$$x_1 + 2x_2 + 3x_3 = 9$$
$$x_1 + 3x_2 + sx_3 = t$$

has no solution, are :

Options :

70819137341. $s = 5,\ t = 13$

70819137342. $s \neq 5$

70819137343. $s = 5,\ t \neq 13$

70819137344. $t \neq 13$

Question Number : 17 Question Id : 70819111512 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Derivative of $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ with respect to $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ in $(1, \infty)$, is :

Options :

70819137345. 1

70819137346. -1

70819137347. 0

70819137348. 2

Question Number : 18 Question Id : 70819111513 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let $\vec{a}$, $\vec{b}$ and $\vec{c}$ be three vectors such that $|\vec{a}|=|\vec{b}|=\frac{|\vec{c}|}{2}=1$. If $\vec{a}\times(\vec{a}\times\vec{c})+\vec{b}=\vec{0}$, then the acute angle between $\vec{a}$ and $\vec{c}$ is :

Options :

70819137349. $\frac{\pi}{6}$

70819137350. $\frac{\pi}{4}$

70819137351. $\frac{\pi}{3}$

70819137352. $\frac{5\pi}{12}$

Question Number : 19 Question Id : 70819111514 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Solution of the differential equation $(1+y^2)dx=(\tan^{-1}y-x)dy$ is :
(where c is an arbitrary constant)

Options :

70819137353. $x=1-\tan^{-1}y+ce^{-\tan^{-1}y}$

70819137354. $y=\tan^{-1}y-1+ce^{-\tan^{-1}x}$

70819137355. $x=\tan^{-1}y-1+ce^{-\tan^{-1}y}$

70819137356. $x=-\tan^{-1}y-1-ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819111515 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The values of x, for which the vectors $\vec{a}=(x^2-16)\hat{i}+4\hat{j}-(x^2-25)\hat{k}$ make acute angles with the (positive directions of) coordinate axes lie in :

Options :

70819137357. $[-5,\ -4]\cup[4,\ 5]$

70819137358. $[-5,\ 4)\cup(-4,\ 5]$

70819137359. $(-5,\ -4)\cup(4,\ 5)$

70819137360. $(-5,\ 4)\cup(-4,\ 5)$

Mathematics Section B

Section Number : 2
Number of Questions : 10
Number of Questions to be attempted : 5
Section Marks : 20

Question Number : 21 Question Id : 70819111516 Question Type : SA Correct Marks : 4 Wrong Marks : 0

$\int_0^{\pi} \sqrt{\frac{1+\cos 2x}{2}}\, dx$ is _____.

Question Number : 22 Question Id : 70819111517 Question Type : SA Correct Marks : 4 Wrong Marks : 0

The minimum value of $9\tan^2\theta + 4\cot^2\theta$ is _____.

Question Number : 23 Question Id : 70819111518 Question Type : SA Correct Marks : 4 Wrong Marks : 0

The length of the perpendicular from the point (1, 2, 3) to the line $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ is _____.

Question Number : 24 Question Id : 70819111519 Question Type : SA Correct Marks : 4 Wrong Marks : 0

If $\log_3 2$, $\log_3(2^x - 5)$ and $\log_3\left(2^x - \frac{7}{2}\right)$ are in Arithmetic Progression, then the value of x is _____.

Question Number : 25 Question Id : 70819111520 Question Type : SA Correct Marks : 4 Wrong Marks : 0

If $x^2 + x + 1 = 0$, then $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$ is _____.

Question Number : 26 Question Id : 70819111521 Question Type : SA Correct Marks : 4 Wrong Marks : 0

$x^2 + y^2 - 4x - 2y - 11 = 0$ is a circle to which tangents are drawn from the point (4, 5) which form a quadrilateral with a pair of radii. The area of this quadrilateral in square units is _____.

Question Number : 27 Question Id : 70819111522 Question Type : SA Correct Marks : 4 Wrong Marks : 0

If the sum of mean and variance of a binomial distribution is 15 and the sum of their squares is 117, then the number of independent trials is equal to _____.

Question Number : 28 Question Id : 70819111523 Question Type : SA Correct Marks : 4 Wrong Marks : 0

Let the equation of the plane passing through the points (1, 2, 6), (2, 5, 7) and perpendicular to the plane $4x - y + z = 15$ be $ax + by + cz + d = 0$. If a, b, c, $d \in \mathbf{Z}$ with gcd $(|a|, |b|, |c|) = 1$, then $|a + b + c + d|$ is equal to _____.

Question Number : 29 Question Id : 70819111524 Question Type : SA Correct Marks : 4 Wrong Marks : 0

The number of real solutions in the interval $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ of the equation $4\sin^2 x - 8\sin x + 3 = 0$ is _____.

Question Number : 30 Question Id : 70819111525 Question Type : SA Correct Marks : 4 Wrong Marks : 0

Let $A_1, A_2, A_3, \ldots\ldots$ be an increasing geometric progression. If $\frac{1}{A_4}+\frac{1}{A_8}=\frac{10}{63}$ and $A_5A_7=441$, then $3(A_2+A_4)$ is equal to _____.

Aptitude Test

Section Number : 3
Number of Questions : 50
Number of Questions to be attempted : 50
Section Marks : 200

Question Number : 31 Question Id : 70819111526 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which among the following is the full form of the 'UNESCO' ?

Options :

70819137371. United Nations Educational, Scientific & Cultural Organization.

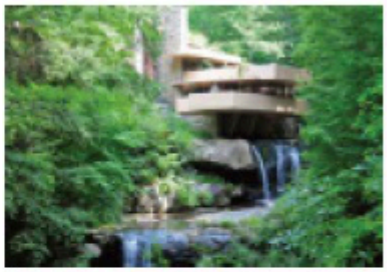
70819137372. United Nations Educational Security Cultural Organization.

70819137373. United Nations Entrance Site Calling Organization.

70819137374. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 32 Question Id : 70819111527 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I		List - II
(I) Hall of Nation	(a)	
(II) Falling Water, Pennsylvania	(b)	
(III) Petronas Tower	(c)	
(IV) Secretariat	(d)	

Options :

70819137375. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819137376. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819137377. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819137378. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 33 Question Id : 70819111528 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

	List - I		List - II
(I)	Kamru	(a)	Victoria Memorial Hall
(II)	Delhi	(b)	Badrinath Temple
(III)	Fatehpur Sikri	(c)	Khirki Masjid
(IV)	Kolkata	(d)	Buland Darwaja

Options :

70819137379. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819137380. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819137381. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819137382. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 34 Question Id : 70819111529 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I	List - II
(I) Agra fort	(a) 
(II) Atala Masjid	(b) 
(III) Nalanda University	(c) 
(IV) Jagannatha Temple	(d) 

Options :

70819137383. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819137384. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819137385. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819137386. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 35 Question Id : 70819111530 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

	List - I		List - II
(I)	Yadvindra Garden	(a)	Manali
(II)	Vishnu Temple	(b)	Amritsar
(III)	Hidimba Temple	(c)	Pinjore
(IV)	Hari Mandir	(d)	Buniyar

Options :

70819137387. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819137388. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819137389. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819137390. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 36 Question Id : 70819111531 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

	List - I		List - II
(I)	Mehrangarh Fort	(a)	Hyderabad
(II)	Siri Fort	(b)	Kolkata
(III)	Golconda Fort	(c)	Delhi
(IV)	Fort William	(d)	Jodhpur

Choose the correct answer from options given below :

Options :

70819137391. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819137392. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819137393. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819137394. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 37 Question Id : 70819111532 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Book 'God of small things' is written by which Indian Architect ?

Options :

70819137395. B.V. Doshi

70819137396. Arundhati Roy

70819137397. Revati Kamat

70819137398. Bimal Patel

Question Number : 38 Question Id : 70819111533 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

'Jharokha' is a type of window mostly found in :

Options :

70819137399. Gujarat

70819137400. West Bengal

70819137401. Tamil Nadu

70819137402. Rajasthan

Question Number : 39 Question Id : 70819111534 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The monsoon wind enters in Indian sub-continent from which direction ?

Options :

70819137403. North-West side

70819137404. South-East side

70819137405. North side

70819137406. South-West side

Question Number : 40 Question Id : 70819111535 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which of the following building represents the colonial Architectural pattern in India ?

Options :

70819137407. Bharat Bhavan in Bhopal

70819137408. LIC Building in Delhi

70819137409. Charminar in Hyderabad

70819137410. Victoria Memorial in Kolkata

Question Number : 41 Question Id : 70819111536 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

What is the size of A2 Drawing sheet ?

Options :

70819137411. 420×590 (mm × mm)

70819137412. 420×594 (mm × mm)

70819137413. 297×420 (mm × mm)

70819137414. 420×592 (mm × mm)

Question Number : 42 Question Id : 70819111537 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Victory Tower belongs to which of the following fort :

Options :

70819137415. Chittor fort

70819137416. Jaigarh fort

70819137417. Bhangarh fort

70819137418. Amer fort

Question Number : 43 Question Id : 70819111538 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which amongst the following Architect has designed the famous Temple "Akshardham" ?

Options :

70819137419. Sanjay Puri

70819137420. Vikram Lall

70819137421. Ashok Lall

70819137422. C. Sompura

Question Number : 44 Question Id : 70819111539 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

'Volume Zero' Documentary is on which Architect ?

Options :

70819137423. Charles Correa

70819137424. Richard Mier

70819137425. Jasbir Sachdev

70819137426. Ranjit Sabliki

Question Number : 45 Question Id : 70819111540 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

'Agenda 21' is declaration related with :

Options :

70819137427. Climate change

70819137428. Global warming

70819137429. Sustainable development

70819137430. Smart city

Question Number : 46 Question Id : 70819111541 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Gold mines are situated in which state of India ?

Options :

70819137431. Karnataka

70819137432. Orissa

70819137433. Maharashtra

70819137434. Uttar Pradesh

Question Number : 47 Question Id : 70819111542 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

In the Southern Hemisphere shadowless light is from which direction ?

Options :

70819137435. North

70819137436. South

70819137437. East

70819137438. West

Question Number : 48 Question Id : 70819111543 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The first Indian Architect who has won Pritzker Prize in 2018 is :

Options :

70819137439. B.V. Doshi

70819137440. Laurie Baker

70819137441. Raj Rewal

70819137442. Achyut Kanvinde

Question Number : 49 Question Id : 70819111544 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Word "Bungalow" has originated from :

Options :

70819137443. Bengalurm

70819137444. Banaras

70819137445. Bengal

70819137446. Bari

Question Number : 50 Question Id : 70819111545 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The IIM - Ahmedabad is designed by which of the following Architect ?

Options :

70819137447. Laurie Baker

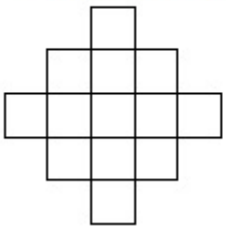
70819137448. Louis Kahn

70819137449. Lutyen

70819137450. Le Corbusier

Question Number : 51 Question Id : 70819111546 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

In the given figure, how many squares are present ?



Options :

70819137451. 14

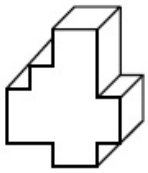
70819137452. 13

70819137453. 15

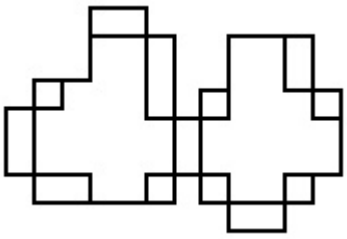
70819137454. 18

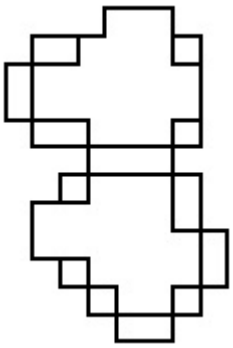
Question Number : 52 Question Id : 70819111547 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

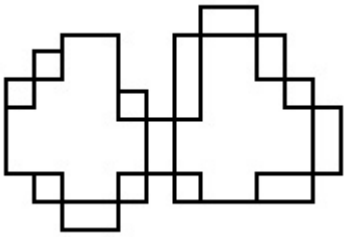
A drawing is provided with all the folds to construct the following three Dimensional object. Select the correct one.

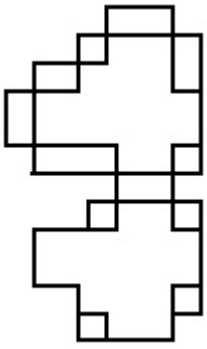


Options :

70819137455. 

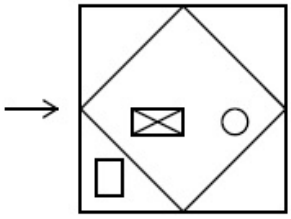
70819137456. 

70819137457. 

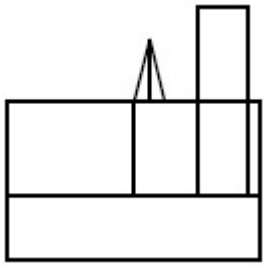
70819137458. 

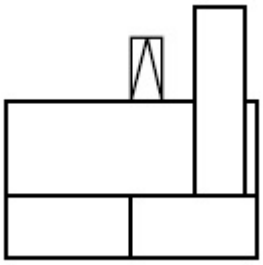
Question Number : 53 Question Id : 70819111548 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

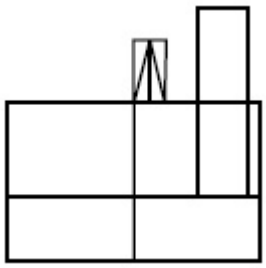
The problem figure shows the top view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

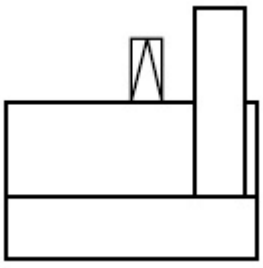


Options :

70819137459. 

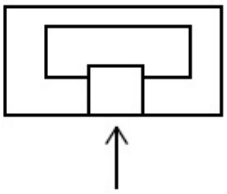
70819137460. 

70819137461. 

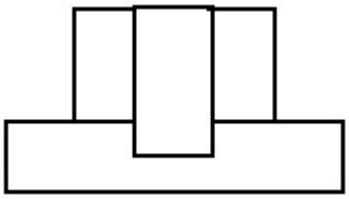
70819137462. 

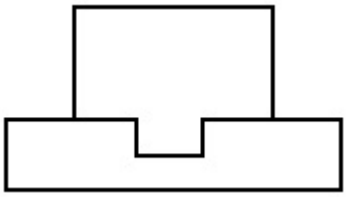
Question Number : 54 Question Id : 70819111549 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

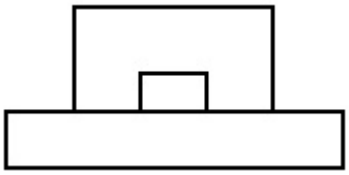
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



Options :

70819137463. 

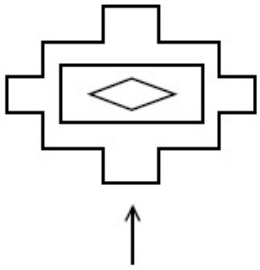
70819137464. 

70819137465. 

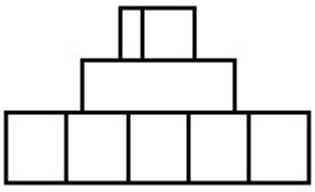
70819137466. 

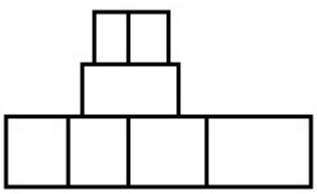
Question Number : 55 Question Id : 70819111550 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

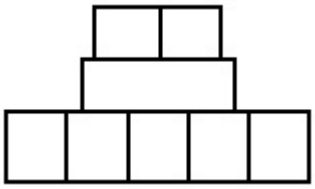
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.

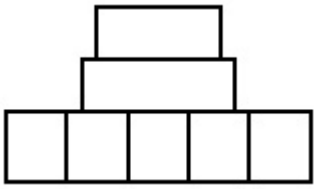


Options :

70819137467. 

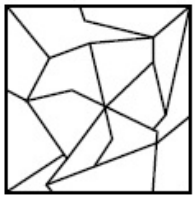
70819137468. 

70819137469. 

70819137470. 

Question Number : 56 Question Id : 70819111551 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in problem figure in same size and direction. Select correct one.



Options :

70819137471. 

70819137472. 

70819137473. 

70819137474. 

Question Number : 57 Question Id : 70819111552 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in problem figure in the same size and direction. Select correct one.



Options :

70819137475. 

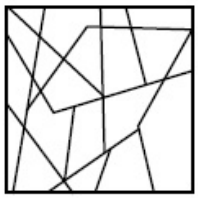
70819137476. 

70819137477. 

70819137478. 

Question Number : 58 Question Id : 70819111553 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in the problem figure in same size and direction. Select the correct one.



Options :

70819137479. 

70819137480. 

70819137481. 

70819137482. 

Question Number : 59 Question Id : 70819111554 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

One of the following answer figures is hidden in the problem figure in same size and direction. Select the correct one.



Options :

70819137483. 

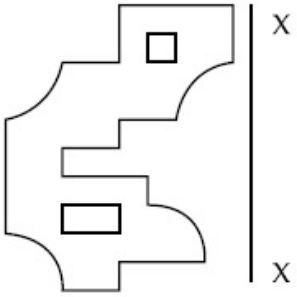
70819137484. 

70819137485. 

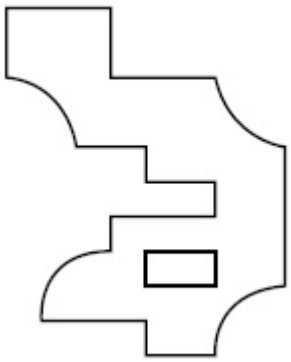
70819137486. 

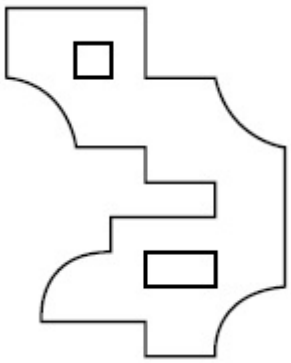
Question Number : 60 Question Id : 70819111555 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

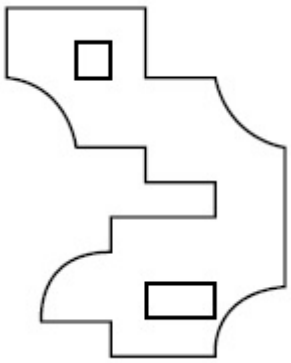
Which one of the answer figures is correct mirror image of problem figure with respect to X-X ?

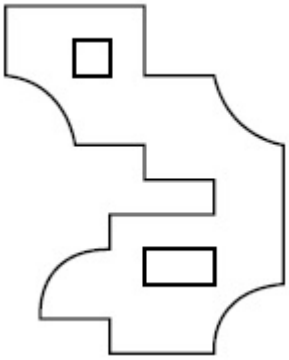


Options :

70819137487. 

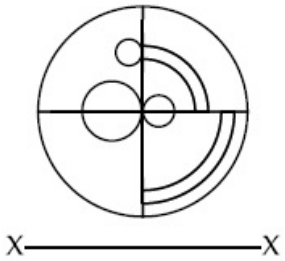
70819137488. 

70819137489. 

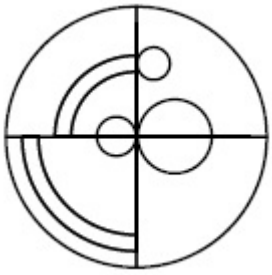
70819137490. 

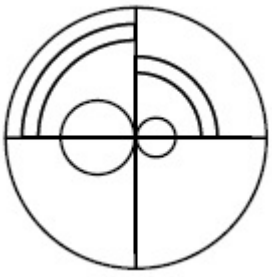
Question Number : 61 Question Id : 70819111556 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

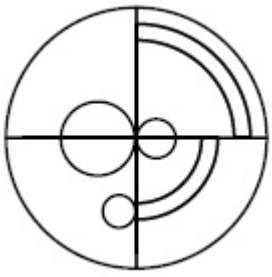
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?

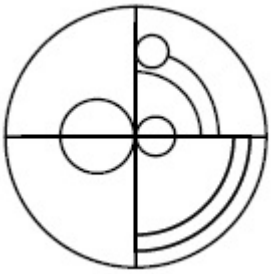


Options :

70819137491. 

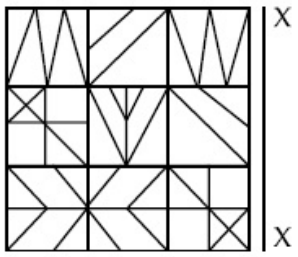
70819137492. 

70819137493. 

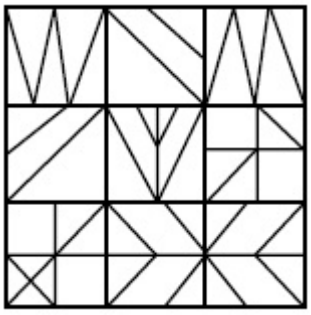
70819137494. 

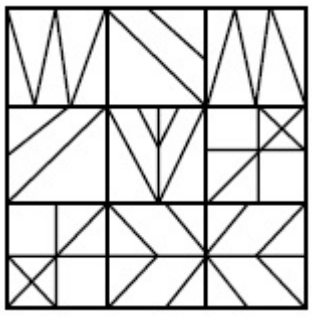
Question Number : 62 Question Id : 70819111557 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

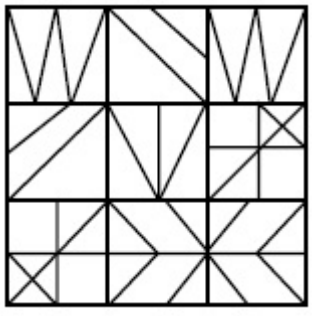
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?

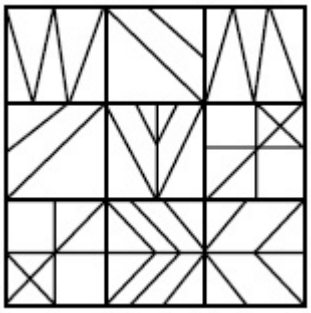


Options :

70819137495. 

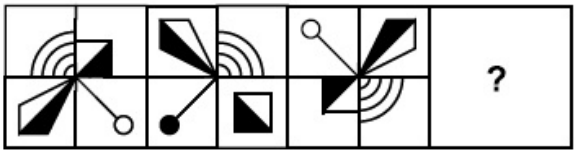
70819137496. 

70819137497. 

70819137498. 

Question Number : 63 Question Id : 70819111558 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the answer figures complete the sequence of the problem figure ? Select the correct one.



Options :

70819137499. 

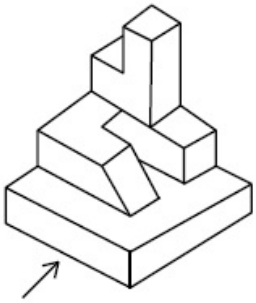
70819137500. 

70819137501. 

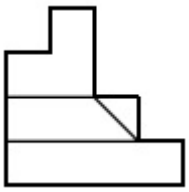
70819137502. 

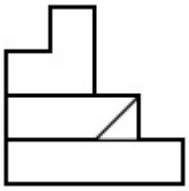
Question Number : 64 Question Id : 70819111559 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

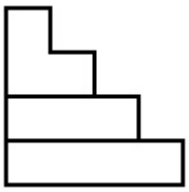
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

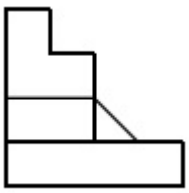


Options :

70819137503. 

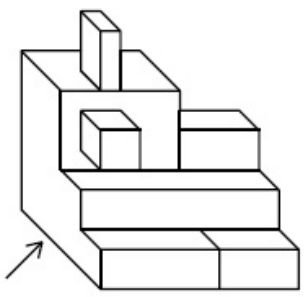
70819137504. 

70819137505. 

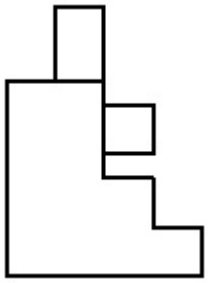
70819137506. 

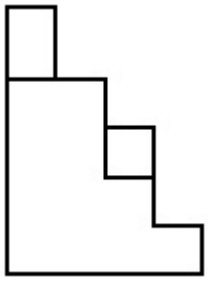
Question Number : 65 Question Id : 70819111560 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

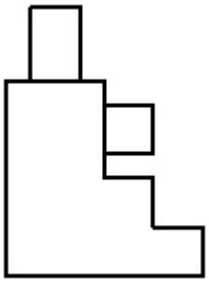
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

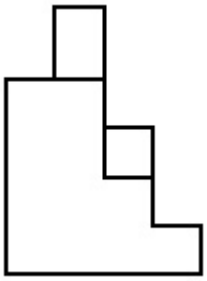


Options :

70819137507. 

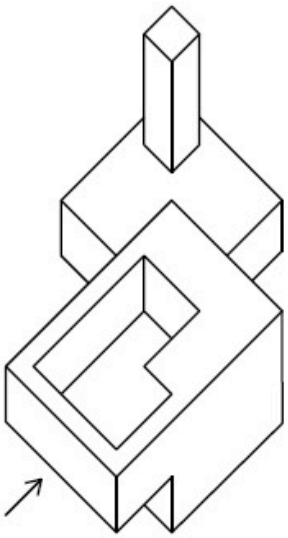
70819137508. 

70819137509. 

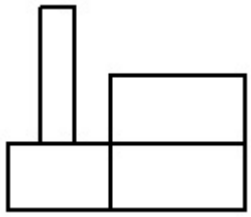
70819137510. 

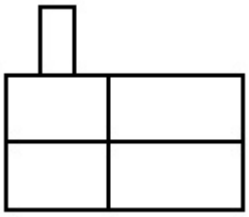
Question Number : 66 Question Id : 70819111561 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

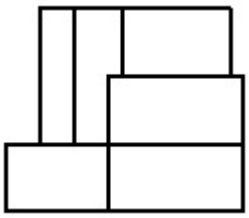
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

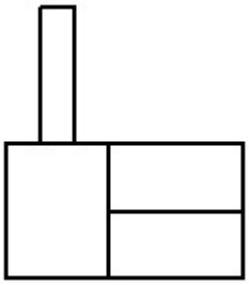


Options :

70819137511. 

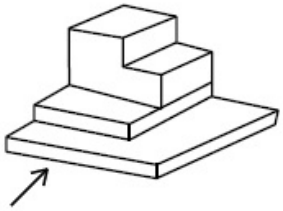
70819137512. 

70819137513. 

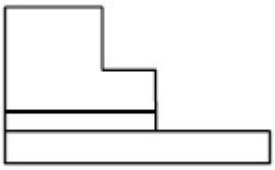
70819137514. 

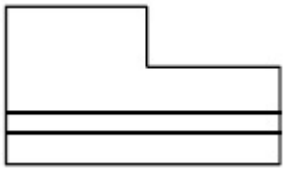
Question Number : 67 Question Id : 70819111562 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

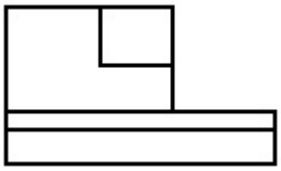
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

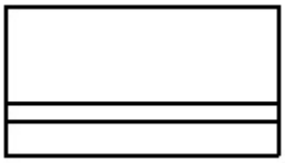


Options :

70819137515. 

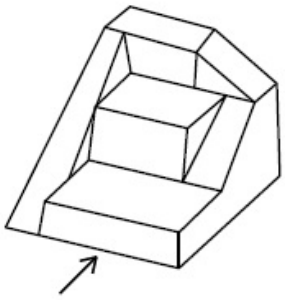
70819137516. 

70819137517. 

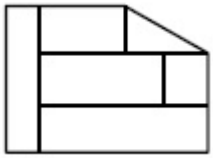
70819137518. 

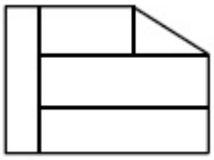
Question Number : 68 Question Id : 70819111563 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

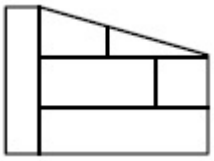
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

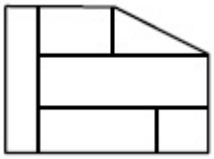


Options :

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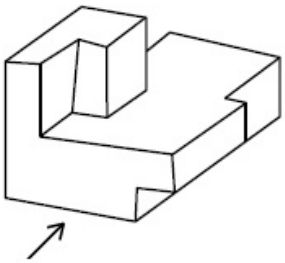
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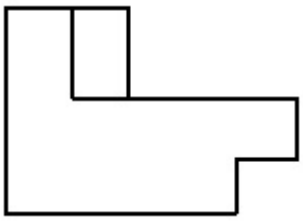
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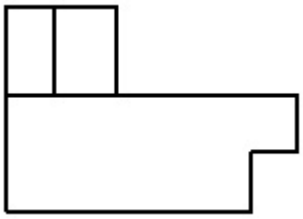
Question Number : 69 Question Id : 70819111564 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

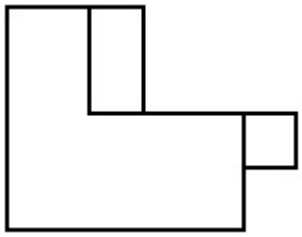
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

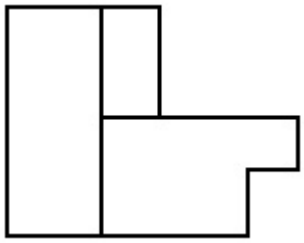


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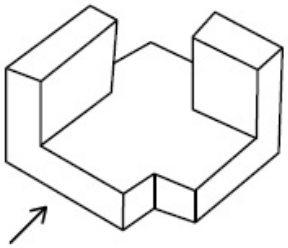
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70819137525. 

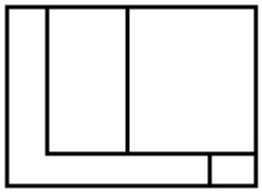
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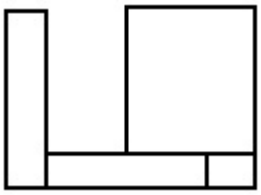
Question Number : 70 Question Id : 70819111565 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

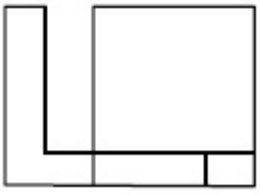
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

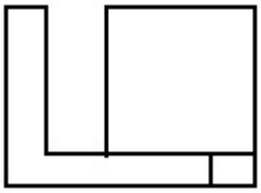


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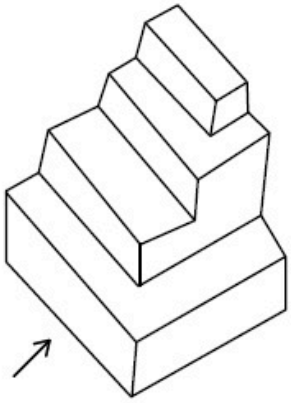
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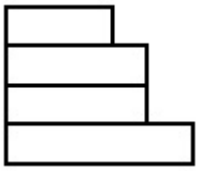
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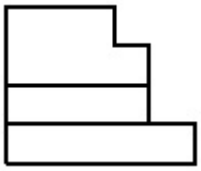
Question Number : 71 Question Id : 70819111566 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

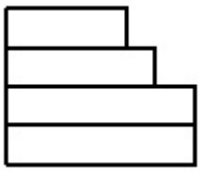
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

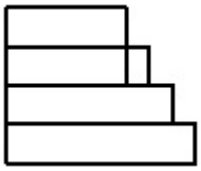


Options :

70819137531. 

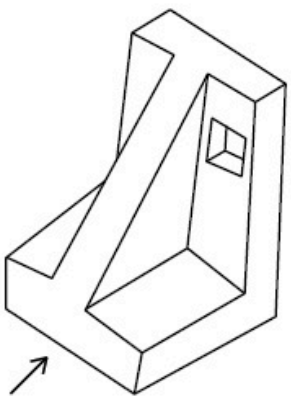
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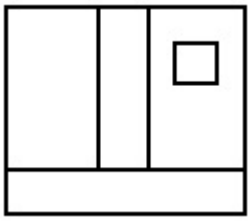
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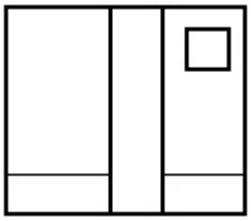
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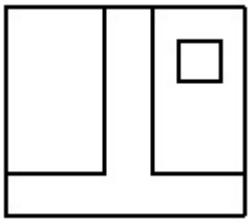
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

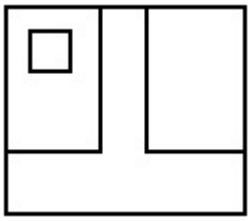


Options :

1. 

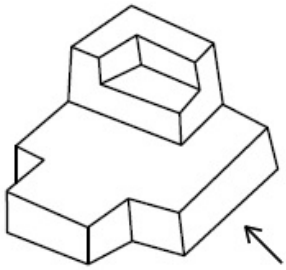
2. 

3. 

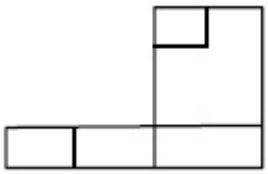
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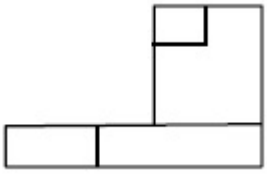
Question Number : 73 Question Id : 70819111568 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

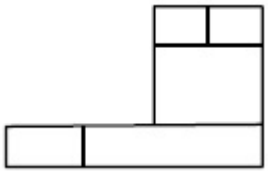
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

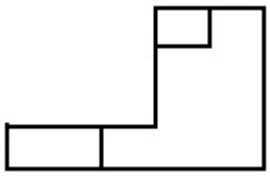


Options :

70819137539. 

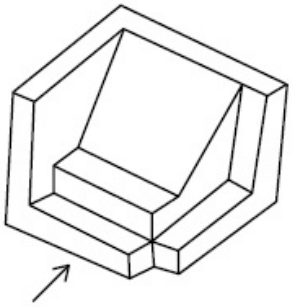
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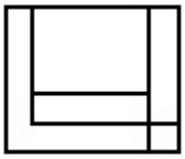
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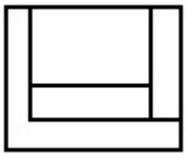
Question Number : 74 Question Id : 70819111569 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

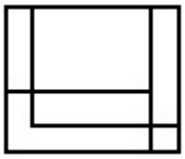
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

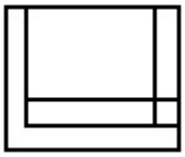


Options :

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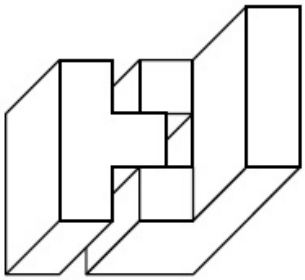
70819137544. 

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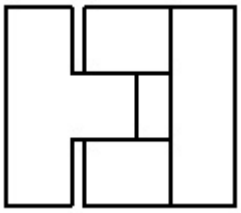
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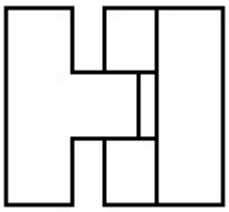
Question Number : 75 Question Id : 70819111570 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

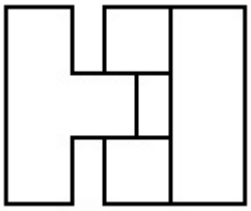
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

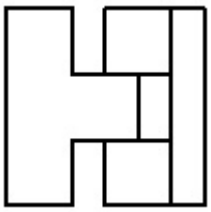


Options :

70819137547. 

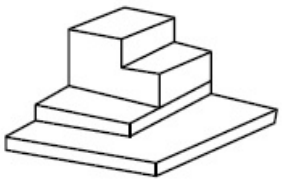
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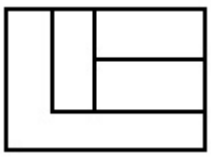
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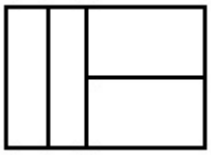
Question Number : 76 Question Id : 70819111571 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

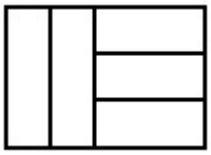
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

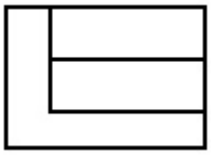


Options :

70819137551. 

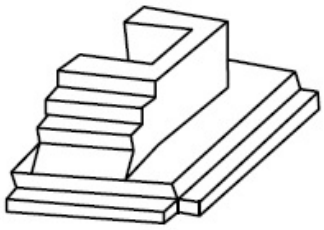
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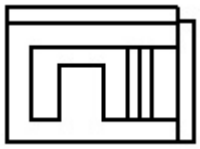
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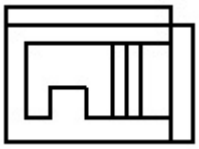
Question Number : 77 Question Id : 70819111572 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

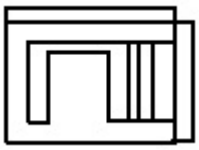
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

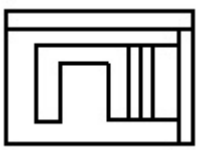


Options :

70819137555. 

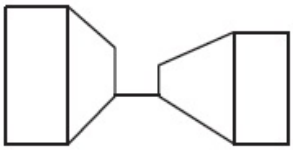
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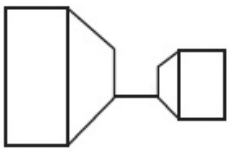
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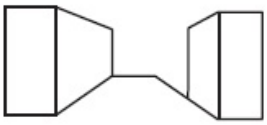
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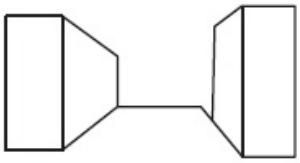
Question Number : 78 Question Id : 70819111573 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Identify the building compositions of having less visual tension amongst the following figures.

(A) 

(B) 

(C) 

(D) 

Options :

70819137559. (A) and (B)

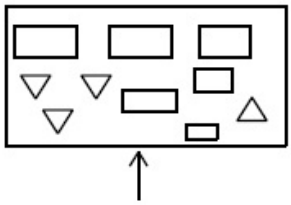
70819137560. (B) and (C)

70819137561. (C) and (D)

70819137562. (D) and (A)

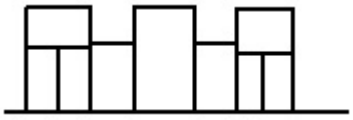
Question Number : 79 Question Id : 70819111574 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

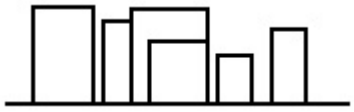
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.

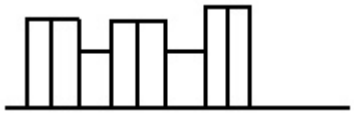


Options :

70819137563. 

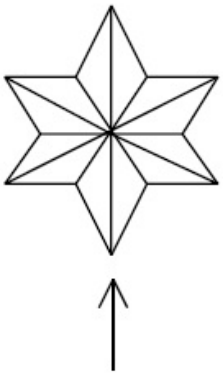
70819137564. 

70819137565. 

70819137566. 

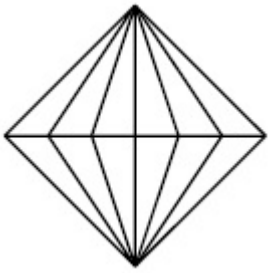
Question Number : 80 Question Id : 70819111575 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.

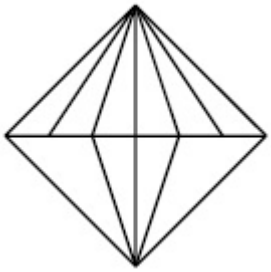


Options :

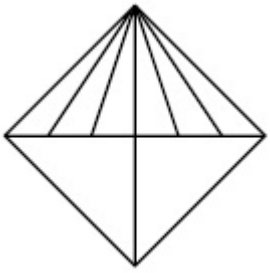
70819137567.



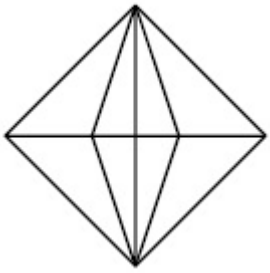
70819137568.



70819137569.



70819137570.



Drawing

Section Number :	4
Number of Questions :	2
Number of Questions to be attempted :	2

Section Marks : 100

Question Number : 81 Question Id : 70819111576 Question Type : SUBJECTIVE Correct Marks : 50 Wrong Marks : 0

Draw a proportionate sketch of given reference image by using any black and white rendering techniques of your own choice.

OR

Decode image and prepare balanced composition in a frame of your choice by using any black and white rendering techniques.



Question Number : 82 Question Id : 70819111577 Question Type : SUBJECTIVE Correct Marks : 50 Wrong Marks : 0

Draw a scene of a Kite festival by using colors.

OR

Draw a Harmonic three dimensional composition with the following two types of objects.

(i) CUBOID A : SIZE 2 cm × 2 cm × 2 cm, 5 Nos.

(ii) CUBOID B : SIZE 5 cm × 2 cm × 2 cm, 4 Nos.

Use 'Cool Colorscheme' for composition.