

CUET General Test Solutions

Date: 06 October 2022, Shift: 1

Question ID: 654701

Actress and Model “Harnaaz Sandhu” was crowned as ___ in Dec 2021.

Solution: Sandhu was announced Miss Universe 2021 by host Steve Harvey and crowned by the outgoing titleholder Andrea Meza of Mexico.

Question ID: 654702

If each side of a cube is reduced by 50%. the surface area will reduced by.

Solution: If each side of a cube is reduced by 50%, it means that the new length of each side will be 50% of the original length. In other words, the new length will be half of the original length.

Let's assume the original length of each side of the cube is "x". After reducing each side by 50%, the new length of each side will be 0.5x.

The surface area of a cube is given by the formula: $6 * (\text{side length})^2$.

The original surface area of the cube is:

$$A_1 = 6 * x^2$$

The new surface area of the cube after reducing each side by 50% is:

$$A_2 = 6 * (0.5x)^2 = 6 * (0.25x^2) = 1.5x^2$$

To calculate the reduction in surface area, we can compare the original surface area to the new surface area:

$$\text{Reduction in surface area} = (A_1 - A_2) / A_1 * 100\%$$

Substituting the values:

$$\text{Reduction in surface area} = (6x^2 - 1.5x^2) / 6x^2 * 100\%$$

$$\text{Reduction in surface area} = (4.5x^2) / 6x^2 * 100\%$$

$$\text{Reduction in surface area} = 0.75 * 100\%$$

$$\text{Reduction in surface area} = 75\%$$

Therefore, if each side of a cube is reduced by 50%, the surface area will be reduced by 75%.

Question ID: 654703

If * is an operation such that $a * b = 3a - 4b$. find the value of $3 * 4$

Solution: To find the value of $3 * 4$ using the given operation, we substitute $a = 3$ and $b = 4$ into the expression $3a - 4b$:

$$\begin{aligned} 3 * 4 &= 3(3) - 4(4) \\ &= 9 - 16 \\ &= -7 \end{aligned}$$

Therefore, $3 * 4 = -7$ using the given operation.

Question ID: 654706

Two numbers are in ratio of 7:10 and if the sum of the numbers is 119. Find the difference of the numbers.

Solution: Let's assume the two numbers in the ratio 7:10 are $7x$ and $10x$, where x is the common ratio.

According to the given information, the sum of the numbers is 119:

$$7x + 10x = 119$$

Combining like terms:

$$17x = 119$$

To find the value of x, we divide both sides of the equation by 17:

$$x = 119 / 17$$

$$x = 7$$

Now, we can find the actual values of the numbers:

$$\text{First number} = 7x = 7 * 7 = 49$$

$$\text{Second number} = 10x = 10 * 7 = 70$$

The difference between the two numbers is:

$$70 - 49 = 21$$

Therefore, the difference of the numbers is 21.

Question ID: 654707

Who is the first (chief of) Defence Staff of the Indian Armed Forces?

Solution: General Bipin Rawat was the first Chief of Defence Staff.

Question ID: 654709

What is the next number 2, 9, 28, 65, ___.

Solution: The series follows the rule:

$$1^3 + 1, 2^3 + 1, 3^3 + 1, 4^3 + 1$$

So the term in place of $5^3 + 1$ is $125 + 1 = 126$

Question ID: 6547010

“Neeraj Chopra” is associated with which sports event?

Solution: Javelin Throw

Question ID: 6547011

The missing term of the series is A2, C5, E8, G11, __.

Solution: To determine the pattern in the given series and find the missing term, let's examine the relationship between the terms:

The series appears to consist of alternating letters and numbers. The letters follow the pattern of increasing by 2 (A, C, E, G), while the numbers increase by 3 (2, 5, 8, 11).

Using this pattern, we can find the missing term:

The next letter should be "I" (G + 2).

The next number should be 14 (11 + 3).

Therefore, the missing term in the series is "I14".

Question ID: 6547012

What is the full form of NABARD?

Solution: National Bank for Agriculture and Rural Development.

Question ID: 6547019

Which of the following standing committee of parliament has no member from Rajya Sabha?

Solution: The correct answer is the Estimates Committee. The Estimates Committee has 30 members and all these members are from Lok Sabha(Lower House). There is no representation from Rajya Sabha (Upper House).

Question ID: 6547020

New education policy, 2020 is goal to achieve 100% Gross Enrolment Ratio (GER) in school Education by the year ___.

Solution: It will be a top priority to bring these children back into the educational fold as early as possible, and to prevent further students from dropping out, with a goal to achieve 100% Gross Enrolment Ratio in preschool to secondary level by 2030.

Question ID: 6547023

Which of the following date World Environment Day is celebrated?

Solution: 5th June is celebrated as World Environment Day for encouraging worldwide awareness and action to protect our environment.

Question ID: 6547026

Which of the following seas has highest salinity in the world?

Solution: The Dead Sea is landlocked and in the lowest valley on earth. All the minerals of the surrounding countryside get washed into one pool,

which in turn gets baked by the sun. This concentrates the salts so much that the Dead Sea is 10 times as salty as the ocean.

Question ID: 6547027

If the sugar price is increased by 25% by how much percent consumption should be reduced that expense remains the same?

Solution: To determine the percent by which consumption should be reduced so that the expense remains the same after a 25% increase in sugar price, we can set up a proportion.

Let's assume the original price of sugar is 100 units (you can use any value as the base, as the percentage change will remain the same).

After a 25% increase in price, the new price of sugar will be $100 + (25\% \text{ of } 100) = 100 + 25 = 125$ units.

Now, let's assume the original consumption of sugar is "x" units.

The original expense is the price multiplied by the consumption:

$$\text{Expense} = \text{Price} * \text{Consumption} = 100 * x = 100x$$

To keep the expense the same after the price increase, the new consumption should be reduced.

Let's assume the new consumption is "y" units.

The new expense is the new price multiplied by the new consumption:

$$\text{Expense} = \text{New Price} * \text{New Consumption} = 125 * y = 125y$$

Since we want the new expense to be equal to the original expense, we set up the equation:

$$100x = 125y$$

Now, let's solve for y to find the new consumption:

$$y = (100x) / 125$$

$$y = 4x / 5$$

To determine the percentage change in consumption, we calculate the difference between the original consumption (x) and the new consumption (y), divide it by the original consumption (x), and multiply by 100:

$$\text{Percentage Change in Consumption} = ((x - y) / x) * 100$$

$$\text{Percentage Change in Consumption} = ((x - 4x/5) / x) * 100$$

$$\text{Percentage Change in Consumption} = ((x/5) / x) * 100$$

$$\text{Percentage Change in Consumption} = (1/5) * 100$$

$$\text{Percentage Change in Consumption} = 20\%$$

Therefore, consumption should be reduced by 20% to keep the expense the same after a 25% increase in sugar price.

Question ID: 6547028

Mohan's Mother is three times as old as Mohan. After 6 years. his mother will be two times as old as he will be them. find the age of Mohan.

Solution: Let's assume Mohan's age as " x " years.

According to the given information, Mohan's mother is three times as old as Mohan, so her age would be $3x$ years.

After 6 years, Mohan's age will be $x + 6$, and his mother's age will be $3x + 6$.

The problem states that after 6 years, his mother will be two times as old as Mohan will be at that time. Mathematically, we can express this as:

$$3x + 6 = 2(x + 6)$$

Now, let's solve this equation to find the value of x , which represents Mohan's current age:

$$3x + 6 = 2x + 12$$

Subtracting $2x$ from both sides:

$$3x - 2x + 6 = 12$$

Simplifying:

$$x + 6 = 12$$

Subtracting 6 from both sides:

$$x = 6$$

Therefore, Mohan is currently 6 years old.

Question ID: 6547029

Which organisation published the Human Development Index (HDI) Report?

Solution: The Human Development Report (HDR) is an annual Human Development Index report published by the Human Development Report Office of the United Nations Development Programme (UNDP).

Question ID: 6547030

Penicillium is a ___.

Solution: Penicillium is well known and one of the most common fungi occurring in a diverse range of habitats, from soil to vegetation to air, indoor environments and various food products. It has a worldwide distribution and a large economic impact on human life.

Question ID: 6547032

Which one of the following is the correct sequence in the decreasing order of contribution of different sources to the gross domestic product (GDP) in India.

Solution: Industry-Agriculture-Services

Question ID: 6547034

Which one of the following bills must be passed by each house of the India parliament separately by special majority?

Solution: Constitution Amendment Bills have to be passed in each House of Parliament by a special majority i.e. by a majority of the total membership of that House and by a majority of not less than two-thirds of the members of the House “present and voting”.

Question ID: 6547034

The average of the first 8 multiples of 8 is?

Solution: To find the average of the first 8 multiples of 8, we can list out the multiples and calculate their sum.

The first 8 multiples of 8 are:
8, 16, 24, 32, 40, 48, 56, 64

To calculate the average, we sum up these numbers and divide by the count, which is 8 in this case:

$$\text{Average} = (8 + 16 + 24 + 32 + 40 + 48 + 56 + 64) / 8$$

Calculating the sum:

$$\text{Average} = 288 / 8$$

Dividing the sum by 8:

$$\text{Average} = 36$$

Therefore, the average of the first 8 multiples of 8 is 36.