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Surface area of Cuboid = $2(lb + bh + hl)$; where l, b and h represent the length, breadth and height of the cuboid. Once they are clear with the terms, they can formulate a story around the formula, or weave the initials of the formula into some word of their choice so as to quickly picture it in front of them. Students can watch the formula visuals on their gadgets to ensure a quick revision whenever they use their mobile or laptop. Volume of cylinder = $\pi r^2 h$; where h represents the height and r represents the radius of the cylinder. Find the edge length of such cube. Solution : Volume of new cube = Volume of metal generated on melting the cubes = Sum of volumes of the three cubes => Volume of new cube = $3 \times 4 \times 3 + 5 \times 3 = 216 \Rightarrow$ Edge length of new cube = $(216)^{1/3} = 6$ cm Question 6 : Find the length of a 1.25 m wide metal sheet required to make a conical machine of radius 7 m and height 24 m. Solution : The sheet would be shaped into cone. => Area of sheet = Area of conical machine => $1.25 \times \text{Length} = \pi \times R \times L \Rightarrow 1.25 \times \text{Length} = \pi \times R \times (7^2 + 24^2)^{1/2} \Rightarrow 1.25 \times \text{Length} = \pi \times 7 \times 25 \Rightarrow \text{Length} = 440$ m Thus, 440 m long metal sheet is required to make the conical machine. Question 7 : From a cylindrical vessel having radius of the base 7 cm and height 6cm, water is poured into small hemispherical bowls each of radius 3.5 cm. List of Mensuration Class 8 Formulas Here is a brief list of mensuration formulas that are commonly used to solve questions related to solid and plane figures. Practicing all the textbook's solved examples will provide the most comprehensive coverage on formula usage in various contexts. Mensuration formulas can be used to find the volumes and heights that are useful in knowing water levels and amounts in rivers or lakes. Find the minimum number of bowls that would be required to empty the cylindrical vessel. Solution : Volume of cylindrical vessel = $\pi R^2 H = \pi (7^2) \times 6 = 924$ cm³ Volume of each bowl = $(2/3) \pi R^3 = (2/3) \pi (3.5)^3 = 269.5/3 \Rightarrow$ Number of bowls required = $924 / (269.5/3) = 10.28$ But since number of bowls cannot be in fraction, we need atleast 11 such bowls to empty the cylindrical vessel. Problems on Mensuration 3D | Set-2. This article has been contributed by Nishant Arora. Please write comments if you have any doubts related to the topic discussed above, or if you are facing difficulty in any question or if you would like to discuss a question other than those mentioned above. Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above. Mensuration is an important part of geometry in mathematics. Find the volume of the cylinder formed. Solution : Let the radius of the cylinder be 'R'. The sheet is rolled along the longer side. => $2 \pi R = 22 \Rightarrow R = 3.5$ cm Also, height = 7 cm Therefore, volume of the cylinder = $\pi R^2 H = \pi (3.5)^2 \times 7 = 269.5$ cm³ Question 4 : If each edge of a cube is increased by 10 %, what would be the percentage increase in volume ? Solution : Let the original edge length be 'a' => Original volume = a^3 Now, new edge length = $1.1 a \Rightarrow$ New volume = $(1.1 a)^3 = 1.331 a^3 \Rightarrow$ Increase in volume = $1.331 a^3 - a^3 = 0.331 a^3$ Therefore, percentage increase in volume = $(0.331 a^3 / a^3) \times 100 = 33.1$ % Question 5 : Three metal cubes of edge length 3 cm, 4 cm, 5 cm are melted to form a single cube. Mensuration class 8 formulas are applied in the measurement of agricultural fields and floor areas that are required for purchase/selling transactions. Surface area of cylinder = $2\pi r(r + h)$; where h represents the height and r represents the radius of the cylinder. This branch deals with the measure of length, volume, area of various solid and plane figures of geometry. There are around 8 formulas in mensuration class 8 formulas that can be remembered easily if the students follow the tips mentioned in this article on a consistent basis. There are several instances where we come across situations to compute the area, perimeter and volume of shapes. Mensuration Class 8 Formulas Examples Example 1: Calculate the height of a cuboid which has a base area of 180 cm² and volume is 900 cm³ Solution: We know that the formula for calculating the volume of cuboid = base area \times height Therefore, $900 \text{ cm}^3 = 180 \text{ cm}^2 \times \text{height}$ So, height of cuboid = $900/180 = 5$ cm Example 2: Find the surface area of a cube which has a side length of 5 units. Solution: Surface area of Cube = $6a^2$; here a = 5 Substituting the value in the formula: Surface area of Cube = $6a^2 = 6 \times 5^2 = 6 \times 25 = 150$ square units. The major formulas include calculating the area, volume, and perimeter of two-dimensional and three-dimensional shapes. Mensuration class 8 formulas are the formulas related to the perimeter and area of different geometric figures. Students can download the printable Maths Formulas Class 8 sheet from below: What are the Important Mensuration Class 8 Formulas? Math Crossword Puzzle # 1 Addition, Subtraction, Multiplication (by a single-digit number) Math Crossword Puzzle # 2 Number Patterns Math Crossword Puzzle # 3 Associative Property: $(5 + 6) \times 2$ Math Crossword Puzzle # 4 Addition, Subtraction, Multiplication (by multiple digit numbers) Math Crossword Puzzle # 5 Measurement (inches, feet, yards) Math Crossword Puzzle # 6 Money (pennies, nickels, dimes, quarters, dollars) Math Crossword Puzzle # 7 Addition, Subtraction, Multiplication & Money Math Crossword Puzzle # 8 Measurement (ounces, pounds, tons) Math Crossword Puzzle # 9 Various math formulas and measurements Math Crossword Puzzle # 10 Money (addition) Math Crossword Puzzle # 11 Time (seconds, minutes, hours, days) Math Crossword Puzzle # 12 Various math formulas and measurements Math Crossword Puzzle # 13 Place Value (thousands, hundreds); multiplication (by 2-digit numbers) Math Crossword Puzzle # 14 Simple word problems Math Crossword Puzzle # 15 Various math formulas and measurements Math Crossword Puzzle # 16 Rounding numbers (to nearest tens, hundreds) Math Crossword Puzzle # 17 Various math formulas and measurements Math Crossword Puzzle # 18 Money (making change) Math Crossword Puzzle # 19 Time (days, weeks, months, years); multiplication (by 3-digit numbers) Math Crossword Puzzle # 20 Various math formulas and measurements Math Crossword Puzzle # 21 Various math formulas and measurements Math Crossword Puzzle # 22 Measurement (pints, cups, quarts, gallons) Math Crossword Puzzle # 23 Review 9 (all measurement) Math Crossword Puzzle # 24 Division (by 1- and 2-digit numbers, no remainders) Math Crossword Puzzle # 25 Various math formulas and measurements Math Crossword Puzzle # 26 Various math formulas and measurements Math Crossword Puzzle # 27 Telling time Math Crossword Puzzle # 28 Various math formulas and measurements Math Crossword Puzzle # 29 Calculating Averages Math Crossword Puzzle # 30 Various math formulas and measurements Math Crossword Puzzle # 31 Time measurement (years, decades, centuries) Math Crossword Puzzle # 32 Various math formulas and measurements Math Crossword Puzzle # 33 Division with simple remainders Math Crossword Puzzle # 34 Various math formulas and measurements Math Crossword Puzzle # 35 Various math formulas and measurements Math Crossword Puzzle # 36 Various math formulas and measurements Mensuration 3D deals with shapes like cube, cuboid, sphere etc. The students must make sure to understand the meaning of these terms first before moving ahead to memorize the formulas. It will help students to maximize the usage of formulas in different contexts. Measurement of liquids like packaged milk, oil, or solid edible food items can be done using the formulas given for volume. Area of Trapezium = $\text{height} \times (\text{sum of parallel sides})/2$ Area of Rhombus = $1/2 \times d1 \times d2$; where $d1 \times d2$ are the two diagonals of the rhombus Area of Special Quadrilateral = $1/2 \times d \times (h1 + h2)$; where d is the diagonal, and $h1$ and $h2$ are the perpendiculars drawn on the diagonals from the vertices. The basic formulas in mensuration help the students learn about the area and perimeter of plane figures and volumes of curved surfaces. Students should practice a complete set of problems and solved examples provided in the textbook. What are the Basic Formulas in Mensuration Class 8 Formulas? Volume of Cube = a^3 ; where a represents the side of the cube. Tips to Memorize Mensuration Class 8 Formulas Mensuration class 8 formulas sometimes seem complex to remember due to the unclarity of terms associated with them. A new twist on a classic favorite, these math crossword puzzles are both fun and challenging. Therefore, here are some tips for students to memorize these formulas in much easier ways: Mensuration class 8 formulas deal with dimensions of 2-D objects like length, volume, shape, surface area, etc. They can get help from teachers or their friends to get clarity on the same. Surface area of Cube = $6a^2$; where a represents the side of the cube. How Many Formulas are there in Mensuration Class 8 Maths? The surface area formulas in mensuration can be used to estimate the cost of painting houses, buildings etc. Applications of Mensuration Class 8 Formulas We are surrounded by various shapes and figures in our environment. How can I Memorize Mensuration Class 8 Formulas? The length of the boundary of plots and fields can be calculated using the perimeter formulas. A brief list of the important mensuration class 8 formulas are given below: Area of Trapezium = $\text{height} \times (\text{sum of parallel sides})/2$ Area of Rhombus = $1/2 \times d1 \times d2$; where $d1 \times d2$ are the two diagonals of the rhombus Area of Special Quadrilateral = $1/2 \times d \times (h1 + h2)$; where d is the diagonal, and $h1$ and $h2$ are the perpendiculars drawn on the diagonals from the vertices. They also help implement a basic knowledge of the relationship between these quantities. What are the Important Formulas Covering Mensuration Class 8 Formulas? Once the students understand the mathematical vocabulary related to mensuration class 8 formulas, they can connect some phrases to the formula's initials to memorize it fast. The problems are generally based on volume and surface area. Cuboid Let the length, breadth and height of the cuboid be 'L', 'B' and 'H' respectively. Volume = $L \times B \times H$ Curved Surface area = $2 H (L + B)$ Total surface area = $2 (L B + B H + H L)$ Length of diagonal = $(L^2 + B^2 + H^2)^{1/2}$ Cube Let the side of the cube be 'a' Volume = a^3 Curved Surface area = $4 a^2$ Total surface area = $6 a^2$ Length of diagonal = a Cylinder (Right Circular Cylinder) Let the radius of the base and height of the right circular cylinder be 'R' and 'H' respectively. Volume = $\pi R^2 H$ Curved Surface area = $2 \pi R H + 2 \pi R^2$ Hollow Cylinder (Hollow Right Circular Cylinder) Let the inner radius of the base, outer radius of the base and height of the hollow right circular cylinder be 'r', 'R' and 'H' respectively. Volume = $\pi H (R^2 - r^2)$ Curved Surface area = $2 \pi R H + 2 \pi r H = 2 \pi H (R + r)$ Total surface area = $2 \pi H (R + r) + 2 \pi (R^2 - r^2)$ Cone Let the radius of the base, slant height and height of the cone be 'R', 'L' and 'H' respectively. $L^2 = R^2 + H^2$ Volume = $(1/3) \pi R^2 H$ Curved Surface area = $\pi R L$ Total surface area = $\pi R L + \pi R^2$ Sphere Let the radius of the sphere be 'R' Volume = $(4/3) \pi R^3$ Surface area = $4 \pi R^2$ Hemisphere Let the radius of the hemisphere be 'R' Volume = $(2/3) \pi R^3$ Curved Surface area = $2 \pi R^2$ Total Surface area = $3 \pi R^2$ Please note that whenever it is mentioned to find "Surface Area", we calculate the total surface area. Sample Problems Question 1 : Find the length of the largest rod that can be kept in a cuboidal room of dimensions 10 x 15 x 6 m. Solution : Largest rod would lie along the diagonal. => Length of largest rod = Length of diagonal of the room = $(L^2 + B^2 + H^2)^{1/2} \Rightarrow$ Length of the largest rod = $(10^2 + 15^2 + 6^2)^{1/2} = (100 + 225 + 36)^{1/2} = (361)^{1/2} = 19$ m Question 2 : Find the number of bricks of dimension 24 x 12 x 8 cm each that would be required to make a wall 24 m long, 8 m high and 60 cm thick. Solution : Volume of 1 brick = $24 \times 12 \times 8 = 2304$ cm³ Volume of wall = $2400 \times 800 \times 60 = 115200000$ cm³ Therefore, number of bricks required = $115200000 / 2304 = 50000$ Question 3 : A rectangular sheet of paper measuring 22 cm x 7 cm is rolled along the longer side to make a cylinder. To memorize the mensuration class 8 formulas, students must assure that they have accurate knowledge of all the terms involved in these formulas. Volume of Cuboid = $l \times b \times h$; where l, b and h represent the length, breadth and height of the cuboid. Let us see how mensuration class 8 formulas are applied in the real world. Mensuration class 8 formulas refer to the calculation of various parameters of shapes like the perimeter, area, volume, etc. The most important formulas covered in the mensuration class 8 formulas are related to finding surface areas and volume of cube, cylinder, cuboid, Trapezium and rhombus.

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