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Volume of cube and cuboid ppt

Surface area and volume of cube and cuboid ppt. Volume of cube and cuboid ppt tes.

2. Objective In this lesson you will learn and understand: The difference between Cubo and Cuboide Find Cubo Volume 3. What is the volume? The volume of a solid, a cube or a cube refers to the capacity of the solid or the amount of space 4. Volume of CUBE=LENGTHX LENGTHXLENGTH LENGTH LENGTH LENGTH ACubeha6squarefaces. Length of each square surface equal. 5. The solid below consists of twenty-seven cubes of 1 cm. Method 1 Volume of a cube of 1 cm = 1 x 1 cm = 1 cm Volume of twenty-seven1 cm cubes = 27 x1 cm = 27 cm The volume of the cube is 27 cm Method 2 Volume of the cube = 3 x 3 x 3 cm = 27 cm The volume of the cube is 27 cm 3 cm 3 cm 3 cm 3 cm 6. Example 1 5 cm 5 cm 5 cm Find the volume of the cube. The 7. Example 2 Volume of the gift =xx= 10x10x10 = 125cm The gift shown on the left is a gift given to class 1T1 for having won the Cheer Competition. Find the gift volume if it's a cube. 10 cm 8. Volume of CUBOID =LENGTHXBREADTHXHEIGHT C U B O I D A cube also has 6 faces maNOAll faces are equal Length Width Height 9. Example 3 Find the volume of the cube shown below. 10cm 4cm 10cm 4cm 10. Example 4 7m 5m 15m 11. Practice Try these questions yourself. Make sure you solve this before proceeding... Next 12. Question 1 Find the volume of the following solid. 2 2 8 2cm 2cm 2cm 13. Question 2 Volume of the cube =xx=x= cm Find the volume of the cube shown below. 6 6 6 216 6cm 14. Question 3 4 3 7 84 7m 4m 3m 15. Question 4 11cm 7cm 6cm 11 7 6 462 1 Volume of cubes and cubesMathematics Volume of cubes and cubes 2 Objectives Lesson The purpose of this powerpoint is to help you learn and use formulas to find the volume of a cube to learn how to find the lateral length of a cube given the volume. 3 Dimensions NOTE: Perim The area is a 2D (two perpendicular sizes multiplied together) The volume is 3D (three perpendicular sizes multiplied together) ADDING distances, areas or volumes together makes longer distances, larger areas or larger volumes You MOLTIPLAMENT Size or distances together to get areas or volumes 4 Measures NOTE: When calculating perimeters, areas and volumes, all sizes must have the same type of units otherwise you will need to convert them first. It is necessary to rememberâ¦ 1cm = 10mm 1m = 100cm (or 1m = 1000mm) 1km = 1000m 5 Volume of Cuboids The volume is three-dimensional. It is necessary to multiply 3 perpendicular sizes together. The volume of a cuboid (or cube) is its length Ã¢Â width Ã¢Â height (or depth) Formula: V = l > w h width width depth length 6 Volume of the cubes The area is measured in squares «Contact or calculate them but the measurements are square units. The volume is measured in cubes "count or calculate them but the measurements are unit-cube. Since the area is already two-dimensional, it is also possible to calculate the volume of a cube (or cube) as the area of its final shape ¥ height (orV = a â- h deep depth area height 7 Working backwards ¢ Â| v v v lw h l wh lh w v a h v = lwhquesti Triangles of formula show that given the volume and 2 different dimensions, to find the third dimension splits the volume for the product of the other two. V = ah v v v lw h l wh lh w v a h This triangular formula shows that given the volume and area of a face, to find the third dimension divide the volume to the area. 8 Special case ¢ Â|Cube Because the size of a cube are all the same, the same distance is multiplied by itself three times, which is the definition of Ã ¢ CubingÃ ¢. V = l Âƒ L Thus V = LÃ‚Â³ to work backwards, the opposite of the cube is opposed. So if you know the volume of a cube, you can find the side length via the cube ¢ Â| l = Ã‚Â³ v 9 Quick exercise What are the volumes of these 3D forms? Cuboid 12mm 25cm 1.5m 20cm 10 solutions ¢ Â| Volume = Length Â- Length Â- Cuboidovolume length = Length Â- Width Â- Cuboid height 12mm 25cm 1.5m 20cm Volume = 12mm Ã- 12mm Â- 12mm = 1728mmÃ qm. The dimensions must be the same units! Volume = 25cm Â- 20cm Â- 150cm = 75 000cmÃ, or volume = 0.25m Â- 0.2m Â- 1.5m = 0.075mÃ.3 11 What comes later? Print PAV5A- Volume call notes. Read through them and make sure you answer all the questions. Learn more about MyMaths lesson and your online task called Volume of Cuboids found at the address: Save and completing the worksheet called Volume-S1.xlsx now Switch to the PowerPoint PAV5B Slideshare Use cookies to improve functionality and performance and to provide you Relevant advertisement. By continuing to surf the site, you consent to the use of cookies on this site. See our user contract and privacy policy. Slideshare uses cookies to improve functionality and performance and to provide relevant advertising. By continuing to surf the site, you consent to the use of cookies on this site. Check out our privacy policy and user agreement for details. Slideshare uses cookies to improve functionality and performance and to provide relevant advertising. By continuing to surf the site, you consent to the use of cookies on this site. See our user contract and privacy policy. 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