

### Chapter 1 : Surface area of complex figures math worksheet for 7th grade children – PDF printable

*These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, 8th Grade, 9th Grade, and 10th Grade. Nets of Solids Worksheets These Surface Area and Volume Worksheets will produce problems for identifying and sketching nets of solids.*

Look for and express regularity in repeated reasoning. Often, I create do nows that have problems that connect to the task that students will be working on that day. Today I want students to start thinking about covering 3D figures. Some students may realize that there are three sets of matching faces and use these calculations to find the surface area. Other students may try drawing a net to help them. A common mistake is that students confuse covering a 3D figure with filling a figure. Some students may find the volume rather than the surface area. I ask students what strategies they are thinking about to answer the questions. I call on students to share what they think and why. I have a sample rectangular prism that students can use to explain their thinking. Students are engaging in MP3: Construct viable arguments and critique the reasoning of others. Some students struggle to use the three labeled dimensions to label the other sides of the net. I explain that each rectangular prism is composed of three matching faces. Two faces that fold together to make one edge must share the same measurement. Typically you would need more paper to wrap the box, but the question asks for the least amount. I want students to look for patterns when finding the surface area. For instance, with a cube all of the faces are identical so once we find the area of one face we can multiply it by six to find the surface area. I do not introduce the formulas for surface area of a cube and rectangular prism. I want students to continue working with a strategy that works for them. If students find shortcuts on their own, I have them explain them to the class and emphasize why they work. Students are engaging in MP8:

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### Chapter 2 : Volume and surface area: online games, worksheets, and activities

*Surface Area = Base Area + ( \* Perimeter \* Slant Height). This is the most general formula to find the surface area of regular polygonal pyramids. The bases are square, triangle, pentagon and hexagon.*

That Should Cover It! Bonus Worksheet printable Optional: Print a copy of the Answer Key: Bonus Worksheet printable for students to complete as part of the Lesson Extensions. Draw a rectangular prism on the board with these measurements: Repeat for the other surfaces. Point out that opposite surfaces have the same area. Show students the surface area formula for rectangular prisms on the Setting the Stage With Geometry Classroom Poster: Demonstrate how to calculate total surface area for the rectangular prism you have drawn. Now draw a cylinder and mark the dimensions with the radius at 3 feet and the height at 4 feet. Indicate that the surface area for a cylinder equals the area of the two bases plus the area of the surface between the bases. Demonstrate this to your class by using a rolled-up piece of paper to create a cylinder; use two paper circles cut out beforehand to fill in the bases. When you unroll the paper, students will see that the surface between the two bases is a rectangle when "unrolled" and that the formula simply adds the area of the bases to the area of the rectangle. Finally, draw a square pyramid on the board and mark the dimensions with a base length of 6 feet and a base width of 6 feet. Show the slant height as 5 feet by drawing a perpendicular line from the center of one of the base sides to the top of the pyramid. This formula adds together the area of the base with the area of the four triangular sides of the square pyramid. Guided Practice Step 8: In groups or in pairs, ask students to calculate surface areas for: A rectangular prism with the following measurements: A cylinder with a radius of 6 feet and a height of 10 feet. A square pyramid with one side of the base 60 meters long and a slant height of 50 meters. Independent Practice Step 9: Tell students they should complete all the questions. You may want to take some extra time in class to go over the bonus question, which introduces the formula for measuring the surface area of a cone: Setting the Stage With Geometry printable. Lesson Extensions Use the following printables as extensions for this lesson:

### Chapter 3 : Calculating Surface Area of 3-D Shapes | Scholastic

*This compact set of workbooks for 7th grade geometry assists in learning to determine the area of circles, triangles and quadrilaterals, volume of polygonal prisms, surface area of rectangular prisms, cylinders and more.*

### Chapter 4 : Surface Area and Volume Worksheets | Prisms and Pyramids Surface Area Worksheets

*In this surface area worksheet, 7th graders solve and complete 12 different problems that include determining the surface area of various figures. First, they find the surface area using the letters at the bottom of the sheet.*

### Chapter 5 : Calculate the Surface Area | Free Math Worksheets for 7th Graders | Math Blaster

*7th grade kids will learn to surface area of the complex shapes in this worksheet. The kids will utilize the measurements given and apply the formulas for finding surface area of different shapes. They can practice surface area with the help of this worksheet.*

### Chapter 6 : Geometry Worksheets | Surface Area & Volume Worksheets

*Calculate the Surface Area Calculate the Surface Area. Surface area is important in businesses like construction, designing and manufacturing. It is one of the basics of geometry and kids can practice calculating the surface area of various figures in this worksheet.*

### Chapter 7 : 7th Grade Math Worksheets

## DOWNLOAD PDF SURFACE AREA WORKSHEET 7TH GRADE

*7th Grade Volume. Showing top 8 worksheets in the category - 7th Grade Volume. Some of the worksheets displayed are Volume and surface area work, Volumes of solids, 7th grade unit 7 lesson plans, 7th grade unit test volume and surface area, Lesson plans on density for middle school teachers, Homework practice and problem solving practice workbook, Grade 7 math practice test, Volume.*

### Chapter 8 : Exploring Area and Surface Area. Mathematics Worksheets and Study Guides Seventh Grade.

*You can also make problems where the volume or surface area is given along with some dimensions, and the students need to calculate either the volume or the surface area of the prism. These types of problems are meant for 7th-9th grade as they are more challenging and may require the use of an equation.*

### Chapter 9 : Sixth grade Lesson Nets and Surface Area | BetterLesson

*Each worksheet has 8 problems finding the surface area of a shape. Create New Sheet Flash Cards Share Select a Worksheet Version 1 Version 2 Version 3 Version 4 Version 5 Version 6 Version 7 Version 8 Version 9 Version 10 Grab 'em All Create New Sheet.*