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Volume of a Cuboid Practice Grid (Editable Word | PDF | Answers) Volume of a Cuboid Challenge Activity (Editable Word | PDF | Answers) Volume of Cubes and Cuboids Match-Up (Editable Word | PDF | Answers) Surface Area of Cubes and Cuboids Practice Grid (Editable Word | PDF | Answers) Surface Area of Cubes and Cuboids Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Cuboids Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Cuboids Fill in the Blanks (Editable Word | PDF | Answers) Volume and Surface Area of Cuboids Give an Example (Editable Word | PDF | Answers) Volume of a Prism Practice Grid (Editable Word | PDF | Answers) Surface Area of Cuboids and Prisms Practice Grid (Editable Word | PDF | Answers) Surface Area of Prisms Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Prisms Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Prisms Crack the Code (Editable Word | PDF | Answers) Volume of a Cylinder Practice Grid (Editable Word | PDF | Answers) Surface Area of Cylinders Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Cylinders Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Cylinders Fill in the Blanks (Editable Word | PDF | Answers) Volume and Surface Area of Cones Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Cones Fill in the Blanks (Editable Word | PDF | Answers) Volume and Surface Area of Frustums Practice Strips (Editable Word | PDF | Answers) Volume and Surface Area of Spheres Practice Strips (Editable Word | PDF | Answers) Volume of Cylinders, Cones and Spheres Practice Grid (Editable Word | PDF | Answers) Surface Area of Cylinders, Cones and Spheres Practice Grid (Editable Word | PDF | Answers) Volume of a Pyramid Practice Strips (Editable Word | PDF | Answers) Mixed Volume and Surface Area Problems Grid (Editable Word | PDF | Answers) Volume and Surface Area Revision Practice Grid (Editable Word | PDF | Answers) . . Printable “Volume” worksheets: Volume of Prisms Volume of Composite Prisms Volume of Prism Word Problems Volume of Cones & Cylinders Volume of Spheres Examples, solutions, videos, and worksheets to help Grade 7 and Grade 8 students learn the volume formulas for cones and cylinders and apply the formulas for volume to real-world and mathematical problems. Volume of Cones & Cylinders Cone A cone is a three-dimensional shape with a circular base that tapers to a point. Formula: Volume (V) = 1/3 * π * r² * h Where: r is the radius of the base h is the height of the cone Cylinder A cylinder is a three-dimensional shape with two parallel circular bases connected by a curved surface. Formula: Volume (V) = π * r² * h Where: r is the radius of the base h is the height of the cylinder Key Points: Both cones and cylinders have circular bases. The volume of a cone is one-third the volume of a cylinder with the same base radius and height. Make sure to use the correct units for radius and height (e.g., cm, inches). The following diagram shows the formulas for the volumes of a cylinder and a cone. Have a look at this video if you need to review how to find the volume of a cone and a cylinder. Volume of Cones & Cylinders Click on the following worksheet to get a printable pdf document. Scroll down the page for more Volume of Cones & Cylinders Worksheets. More Volume of Cones & Cylinders Worksheets Printable (Answers on the second page.) Volume of Cones & Cylinders Worksheet #1 Volume of Cones & Cylinders Worksheet #2 Volume of Cones & Cylinders Worksheet #3 Volume of Cones & Cylinders Worksheet #4 Volume of Cones & Cylinders Worksheet #5 Volume of Cones & Cylinders Worksheet #6 Volumes of Cones & Cylinders More Printable Worksheets Try out our new and fun Fraction Concoction Game. Add and subtract fractions to make exciting fraction concoctions following a recipe. There are four levels of difficulty: Easy, medium, hard and insane. Practice the basics of fraction addition and subtraction or challenge yourself with the insane level. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page. If a cone and a cylinder have the same base and the same height, then the volume of the cone is \(\frac{1}{3}\) of the volume of the cylinder. For example, the cylinder and cone shown here both have a base with radius 3 feet and a height of 7 feet. The cylinder has a volume of \(63\pi\) cubic feet since \(\pi \boldcdot 3^2 \boldcdot 7 = 63\pi\). The cone has a volume that is \(\frac13\) of that, or \(21\pi\) cubic feet. If the radius for both is \(r\) and the height for both is \(h\), then the volume of the cylinder is \(\pi r^2h\). That means that the volume, \(V\), of the cone is \(\displaystyle V=\frac{1}{3}\pi r^2h\) Tackle mixed shapes in our free volume worksheets with answer keys! Guide students from basic to advanced volume calculation, with prisms, spheres, pyramids, cones, and cylinders competing for space. Dimensions progress from smaller integers to larger values and decimal measurements, building skills step-by-step for real-world applications.