

Name _____

Class _____

Date _____

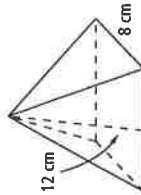
11-3

Additional Problems

Surface Areas of Pyramids and Cones

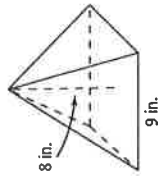
Problem 1

What is the surface area of the square pyramid with base edges of 8 cm and a slant height of 12 cm?



Problem 2

What is the lateral area of a pyramid with a height of 8 in. and a square base that measures 9 in. on each side? Round to the nearest tenth.



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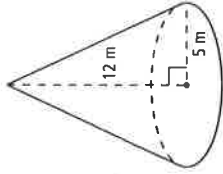
11-3

Additional Problems

Surface Areas of Pyramids and Cones

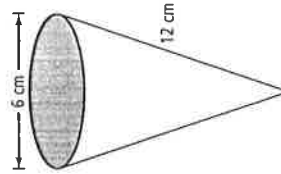
Problem 3

What is the lateral area of the cone in terms of π ?



Problem 4

What is the lateral area of the ice cream cone shown below? Round to the nearest square centimeter.

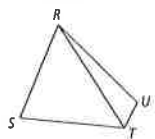


11-1 Additional Problems

Space Figures and Cross Sections

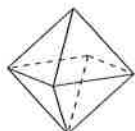
Problem 1

How many vertices, edges, and faces are in the polyhedron below? List them.



Problem 2

How many edges does the polyhedron below have? Use Euler's Formula.



Problem 3

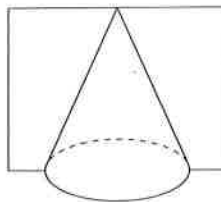
How can you verify Euler's Formula for a net of a cube?

11-1 Additional Problems (continued)

Space Figures and Cross Sections

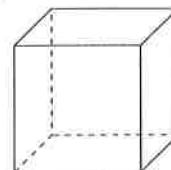
Problem 4

What is the cross section formed by the plane and the solid below?



Problem 5

Draw a cross section formed by a vertical plane intersecting the right and left faces of the cube. What shape is the cross section?

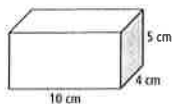


11-2 Additional Problems

Surface Areas of Prisms and Cylinders

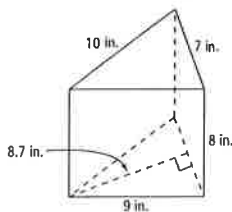
Problem 1

What is the surface area of the prism below? Use a net.



Problem 2

What is the surface area of the prism below?



11-2 Additional Problems (continued)

Surface Areas of Prisms and Cylinders

Problem 3

The radius of the base of a cylinder is 6 cm and its height is 15 cm. What is the surface area of the cylinder in terms of π ?

- A. $176\pi \text{ cm}^2$
- B. $188\pi \text{ cm}^2$
- C. $234\pi \text{ cm}^2$
- D. $252\pi \text{ cm}^2$

Problem 4

A soup can is 4.5 in. high and has a diameter of 3 in. How much paper is needed to make a label that will completely cover the sides of the can without overlap?