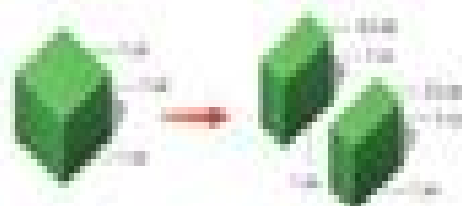


EXAMPLE Problem 1

Calculate Surface Area Suppose the length, height, and width of a cube are each 7 cm. If the cube is cut in half to form two rectangular prisms, what is the total surface area of the two prisms?



Identify the Unknowns

Total surface area of the two rectangular prisms

List Knowns

length = 7 cm = **7 cm**

height = 7 cm = **7 cm**

width = 7 cm = **7 cm**

Set Up the Problem

The rectangular prism will have two faces

Surface area of front and back = $2(7)(7) = 98$

Surface area of left and right = $2(7)(7)$

Surface area of top and bottom = $2(7)(7)$

Surface area of rectangular prism = $98 + 98 + 98 = 294$ or $3(98) = 294$

Total surface area = Surface area of prism + Surface area of new prism

Solve the Problem

Surface area of new prism =

$2(7)(7) = 98$ or $2(49) = 98$ or $2(7)(7) = 98$ or $2(49) = 98$ or $2(7)(7) = 98$

The total surface area of the two rectangular prisms is $98 + 294 = 392$

Check the Answer

Total surface area of the original cube = $6(7)(7) = 6(49) = 294$ or $6(7)(7) = 294$

Showing the cube is cut increases the surface area, which is reasonable.

PROBLEM Solving

1. Calculate Surface Area of a Rectangular Prism

1. The length, height, and width of a cube are each 9 cm. If the cube is cut in half to form two rectangular prisms, what is the total surface area of the two prisms?

Answer: Practice Problems

2. If a cube that has a length, height, and width of 4 cm is divided along one of its edges of equal size, what is the surface area of the 2 new cubes?

3. **Challenge** A cube of side with a length, height, and width of 3 cm is cut in half along a face to another cube of side with the same dimensions. How much surface area is lost by combining the cubes to form a rectangular solid?



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