

Surface Area of Rectangular Prisms and Cubes

What is a prism?

A prism is a 3-D shape that has the same shape for both bases.

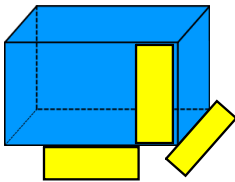


What is surface area?

the area of all of the surfaces of a 3D shape added together

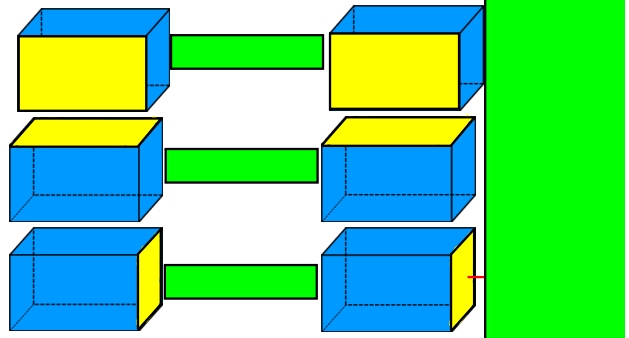
What could the formula be...
Label the prism.

click to check

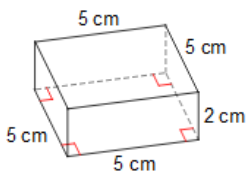


How would you find the area of each face?

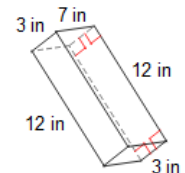
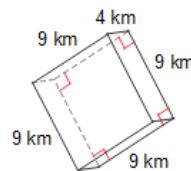
How many faces of each are there?



Find the Surface Area

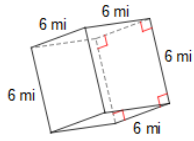


Find the Surface Area



Notes - Surface Area of Rectangular Prisms and Cubes.notebook

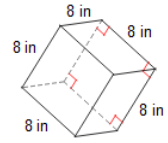
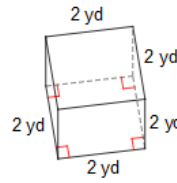
How would you find the area of a cube?



Formula for a square? _____

How many sides does a cube have? _____

Find the Surface Area



Molly makes a rectangular cake that is 12 inches long, 9 inches wide, and 2 inches high. If she covers the cake in frosting, how many square inches of frosting does she need?

Chloe wants to wrap a present in a box for Sarah. The top and bottom of the box is 8 in. by 3 in., the sides are both 3 in. by 2 in. and the front and back are 8 in. by 2 in. How much wrapping paper will Chloe need to wrap the present?

You are painting a room that is 18 ft long, 14 ft wide and 8 ft high. How many square feet of paint do you need to paint the walls.