

SURFACE AREA OF RECTANGULAR PRISMS

Name: _____ Class: _____ Due Date: _____

Family Member Signature: _____

Objective: To practice using our knowledge of the area of a rectangle to find the surface area of rectangular prisms.

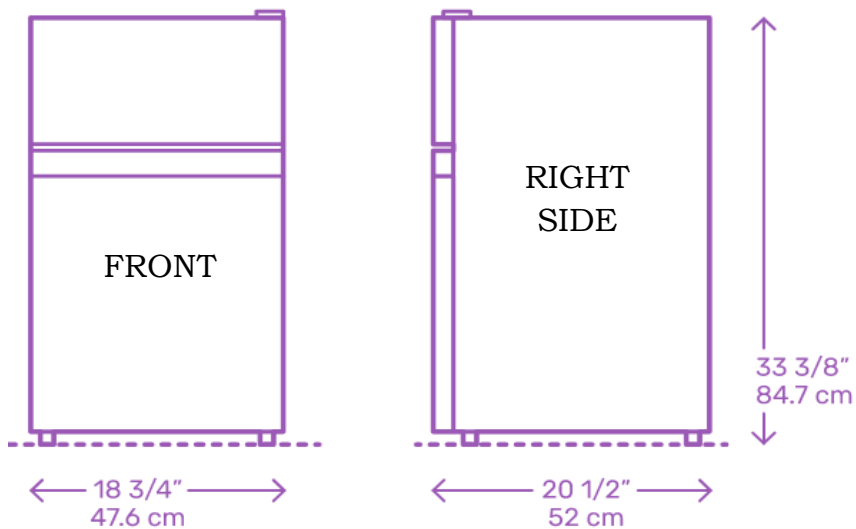
Necessary Information:

A rectangular prism is a three-dimensional object which has a rectangle on the top and the bottom.

Surface Area is the amount of area showing on the outside of the object.

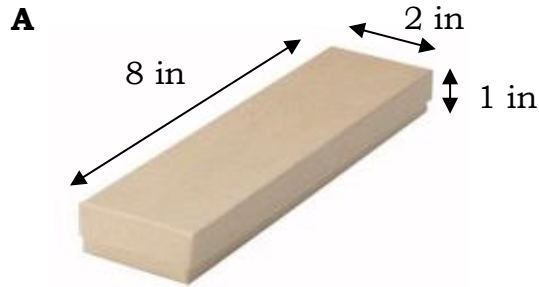
Practice Section:

1) Use the picture of the refrigerator to answer the following questions.



- a) What is the area of the front in centimeters? _____
- b) What is the area of the back in centimeters? _____
- c) What is the area of the right side in centimeters? _____
- d) What is the area of the top in centimeters? _____

2) Which jewelry box uses the most cardboard? (Disregard the overlap where the lid wraps over the sides.)



$A_{\text{front}} =$ _____

$A_{\text{front}} =$ _____

$A_{\text{back}} =$ _____

$A_{\text{back}} =$ _____

$A_{\text{leftside}} =$ _____

$A_{\text{leftside}} =$ _____

$A_{\text{rightside}} =$ _____

$A_{\text{rightside}} =$ _____

$A_{\text{top}} =$ _____

$A_{\text{top}} =$ _____

$A_{\text{bottom}} =$ _____

$A_{\text{bottom}} =$ _____

Total cardboard = _____

Total cardboard = _____

_____ **uses the most cardboard**

In Your Real World:

With a family member, find a book. Use a measuring device to determine the width, length and height of the book. **Sketch** a diagram with labels. **Calculate** how much cardboard would be needed to cover your book in order to ship it.