

Math Virtual Learning

6th Grade Math

Surface Area of Rectangular Prisms April 28, 2020



6th Grade Math Lesson: April 28, 2020

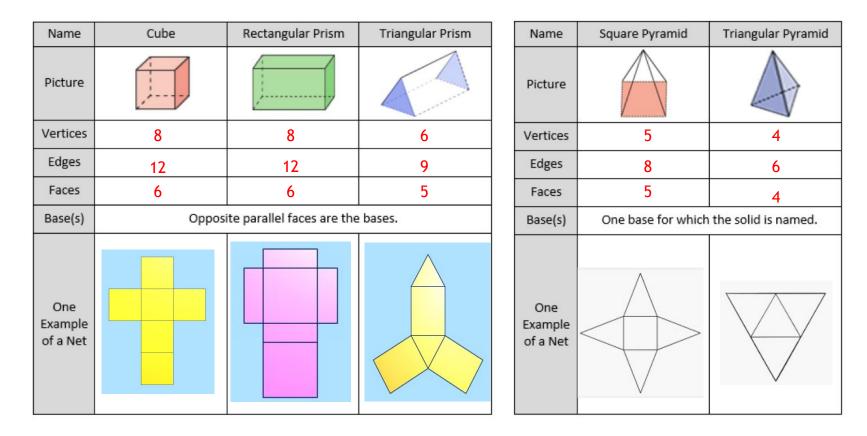
Objective/Learning Target:

Students will use nets to find the surface area of rectangular prisms.

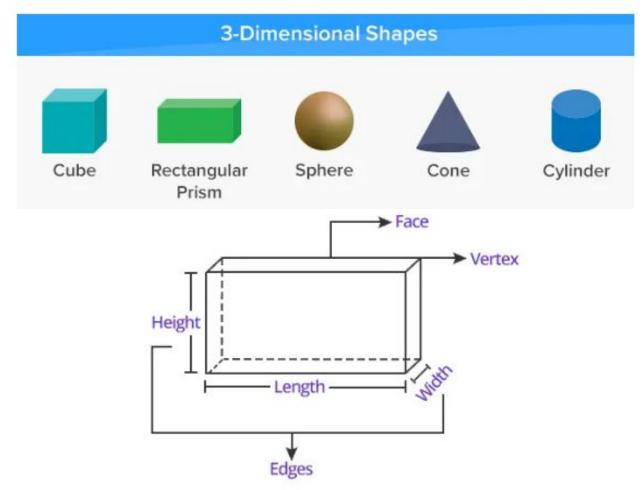
Daily Warm-up

Name	Cube	Rectangular Prism	Triangular Prism	Name	Square Pyramid	Triangular Pyramid
Picture				Picture	\bigwedge	\bigcirc
Vertices				Vertices		
Edges				Edges		
Faces				Faces		
Base(s)	Oppos	ite parallel faces are the	e bases.	Base(s)	One base for which	the solid is named.
One Example of a Net				One Example of a Net		

Daily Warm-up Answers



A cube, rectangular prism, sphere, cone and cylinder are the basic 3-dimensional shapes we see around us.



Lesson

Surface Area Using Nets

YouTube Video

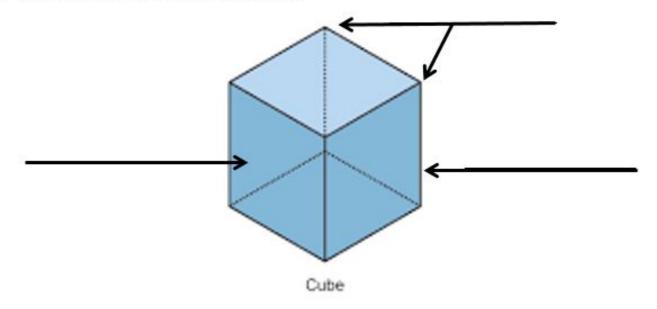
Practice Surface Area Practice

Surface Area

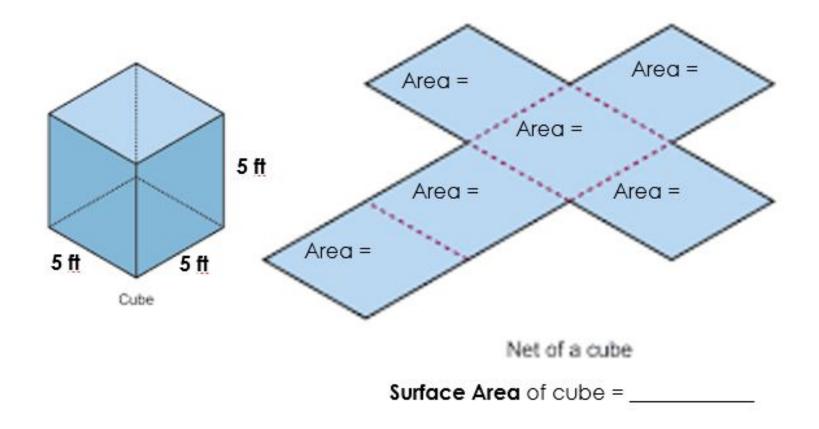
Surface Area is the total area of surface of a 3-dimensional

object. To find the **Surface Area** of a 3-D figure, first find the Area of each face and then add them together!

1.) Label the parts of the solid figure.

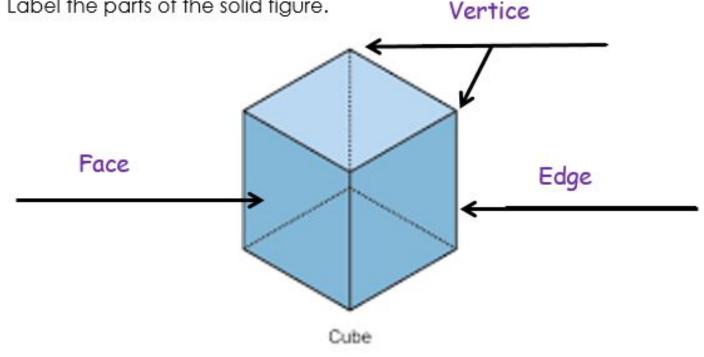


2.) Find the Surface Area of the cube by adding the areas of each face. Remember area is a 2-D measurement in squared units.

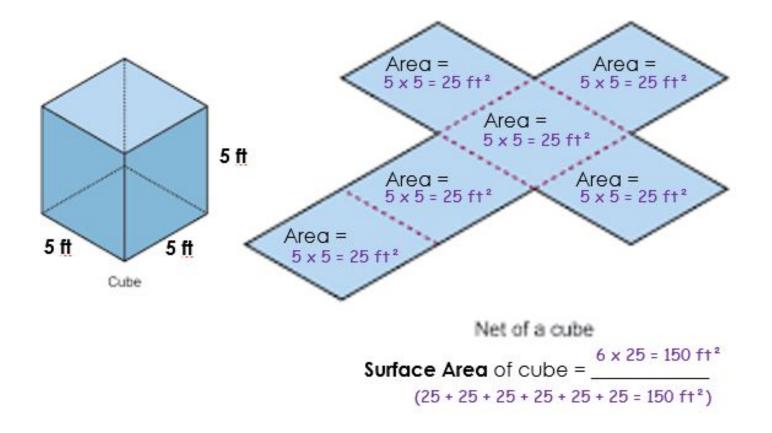


Surface Area is the total area of surface of a 3-dimensional object. To find the Surface Area of a 3-D figure, first find the Area of each face and then add them together!

3.) Label the parts of the solid figure.



4.) Find the Surface Area of the cube by adding the areas of each face. Remember area is a 2-D measurement in squared units.



Practice

Use this link to explore different nets of rectangular prisms.

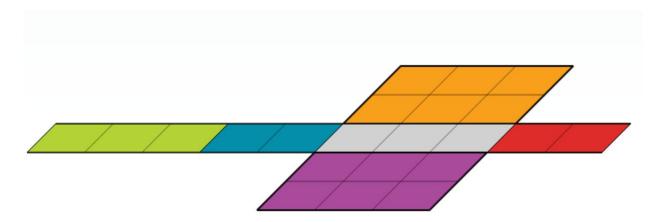
Rectangular Prism Generator

Click this gear button to build the rectangular prisms on the next slides.



Quick Tips

Surface Area is the wrapping of a 3D shape- the number of square units that make up the net



22 square units in the surface area of this rectangular prism

Box Number	Width	Depth	Height	Surface Area	Sketch Net
Box #1	4 units	5 units	3 units		
Box #2	4 units	4 units	4 units		
Box #3	5 units	2 units	2 units		
Box #4	3 units	2 units	10 units		

Box Number	Width	Depth	Height	Surface Area	Sketch Net
Box #1	4 units	5 units	3 units	94 sq units	
Box #2	4 units	4 units	4 units	96 sq units	
Box #3	5 units	2 units	2 units	48 sq units	
Box #4	3 units	2 units	10 units	112 sq units	

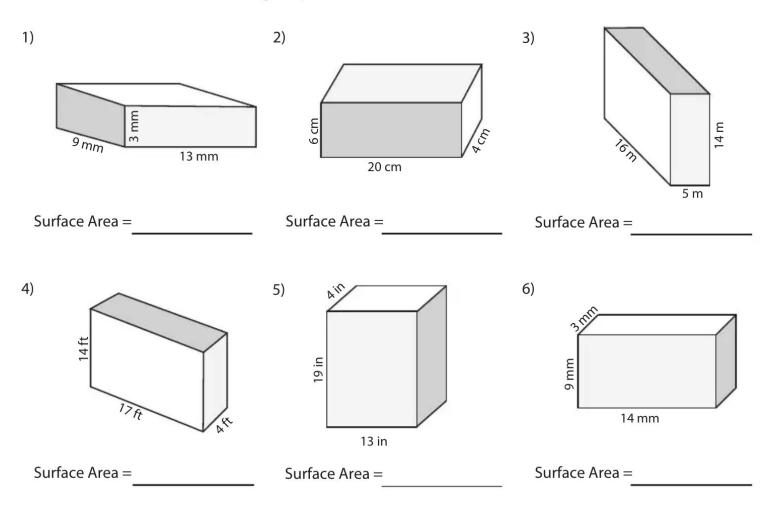
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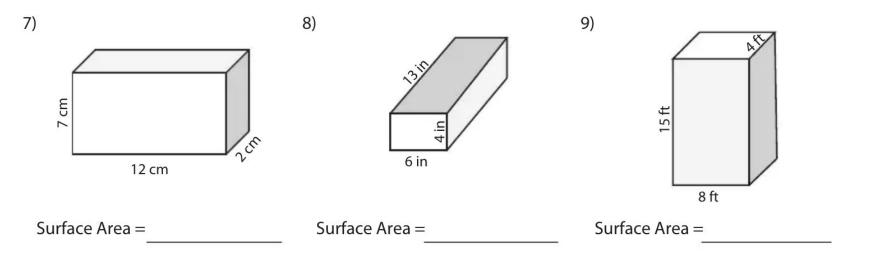
E

R

С

Find the surface area of each rectangular prism.





10) A gift box in the shape of a rectangular prism has 20 centimeters length, 14 centimeters width and 10 centimeters height. How much the paper will you need to wrap the gift box?

Surface Area =_____

Practice Answers

- 1. 366 sq mm
- 3. 748 sq mm
- 5. 750 sq in
- 7. 244 sq mm
- 9. 424 sq ft

- 2. 448 sq mm
- 4. 724 sq ft
- 6. 390 sq mm
- 8. 308 sq in
- 10.1240 sq cm

Additional Practice:

Click on the link below to get additional practice and to check your understanding!

Practice:

Khan Academy

Online Surface Area Game

Summary/Reflection:

How well did I do? What could I have done differently?