

Math Virtual Learning 6th Grade Math Nets of Three-Dimensional Figures

April 27, 2020



6th Grade Math Lesson: April 27, 2020

Objective/Learning Target: Students will represent three-dimensional figures using nets made up of rectangles and triangles.

First, let's warm up!

Match the following shapes with their area formula

- Square $A = | \bullet w$
- Triangle $A = s^2$
- Rectangle $A = \frac{1}{2} bh$

What is a composite figure?

First, let's warm up! answers

Match the following shapes with their area formula



What is a composite figure? A figure that can be divided or split into smaller, more basic shapes such as rectangles and triangles.

So what is a net?

A net is a two-dimensional (flat) shape that can be folded to form a three-dimensional figure.





Net of Rectangular Prism



*Pyramids are named for their base (bottom). The one pictured is a square pyramid (square base). You can also have a triangular pyramid and a rectangular pyramid.

WOW

Here's some more!

Watch This!

After watching the video, scroll down to see how some nets can be folded into solids!

More Animations!

Don't click the big green buttons (ads), instead scroll down to the *Nets of a Solid-Animations* and drag the cursor left and right to animate.

There are many different nets that be turned into solid figures. On the next slide, we will explore what some of the nets look like and what figures they form.

Let's Go!

Figure Name	Composed of	Net	Solid
Cube	Six squares, all equal in size		
Rectangular prism (sometimes called a 'cuboid')	Six rectangles, opposite faces are always equal in size		
Square pyramid	One square and four triangles		
Triangular Pyramid (tetrahedron)	Four triangles		
Rectangular pyramid	One rectangle and two pairs of equal sized triangles		
Triangular prism	Three rectangles and two triangles		

Practice

In the following groups, choose one net that would NOT make the figure shown



Practice answers

In the following groups, choose one net that would NOT make the figure shown



More Practice

Now that we've identified the nets that don't work, can you explain WHY the net doesn't make a...



More Practice answers

Now that we've identified the nets that don't work, can you explain WHY the net doesn't make a...



Reflection

On a piece of paper, write your understanding of today's lesson. Use the chart to help you. Go into detail explaining where you are struggling, or where you are succeeding.

Email your teacher if you feel like you need

further assistance with today's lesson!



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l am so lost.	l don't really get it.	I'm starting to get it.	I got this.	l could teach it.



Want More? Additional Resources



