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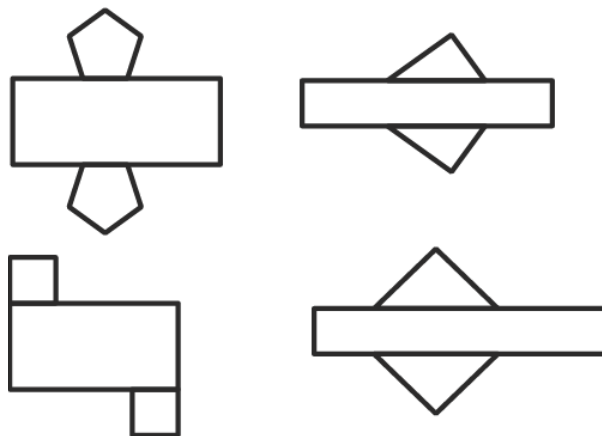
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Unit 7, Lesson 17: Building Prisms

Let's build a triangular prism from scratch.

17.1: Nets

Here are some nets for various prisms.



1. What would each net look like when folded?

2. What do you notice about the nets?

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17.2: Making the Base

The base of a triangular prism has one side that is 7 cm long, one side that is 5.5 cm long, and one angle that measures 45° .

1. Draw as many different triangles as you can with these given measurements.

2. Select one of the triangles you have drawn. Measure and calculate to approximate its area. Explain or show your reasoning.

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17.4: Combining Prisms

1. Compare your prism with your partner's prism. What is the same? What is different?
2. Find a way you can put your prism and your partner's prism together to make one new, larger prism. Describe your new prism.
3. Draw the base of your new prism and label the lengths of the sides.
4. As you answer these questions about your new prism, look for ways you can use your calculations from the previous activity to help you. Explain or show your reasoning.

What is the area of its base?

What is its height?

What is its volume?

What is its surface area?

Are you ready for more?

How many identical copies of your prism would it take you to put together a new larger prism in which every dimension was twice as long?