

Home Connections

Math Activities

Grade 5

Geometry and Spatial Sense

Triangles in the Environment
Find the Nets
Planning a Trip
Translations in the Home

Triangles in the Environment

1. Ask your child to find different triangles in and around your home.
2. Ask your child to describe the type of triangle, create a sketch, and describe the purpose of the triangle.



Scalene
Side lengths are all different.



Equilateral
All side lengths are the same.



Isosceles
Two side lengths are the same.



Right
One angle is 90°



Acute
All angles are less than 90°



Obtuse
One angle is greater than 90°


Triangle names are by the number of sides or the types of angles it has.

Let's Talk About It

- Was there a certain type of triangle that you found the most?
- Why do you think that is?

Triangles in the Environment

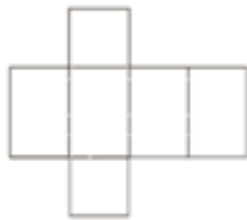


Type of Triangle	Sketch	Purpose
Example: Equilateral		part of a bridge structure

Find the Nets

1. Have your child identify which nets will make a three-dimensional (3D) figure from the attached sheet.
2. Name the 3D figure that will be created from the net.

Example of a net when it is folded:



Net



Rectangular Prism

Net is what a 3D figure can look like when it is opened up.

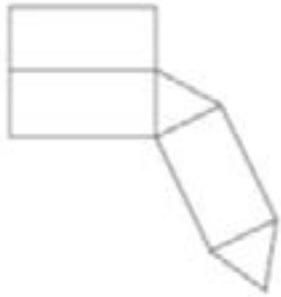
Let's Talk About It

- How did you know which ones are nets and which ones are not?
- What are some nets for a cube?

Find the Nets



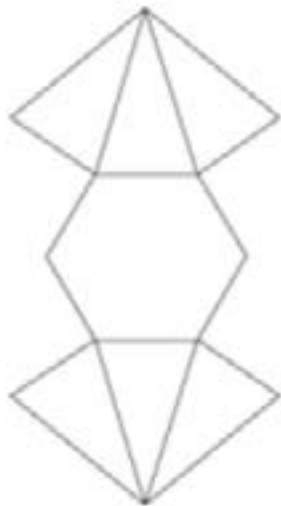
A.



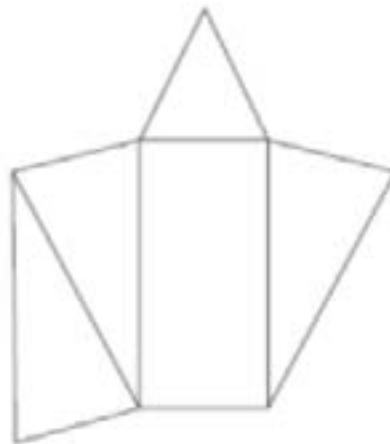
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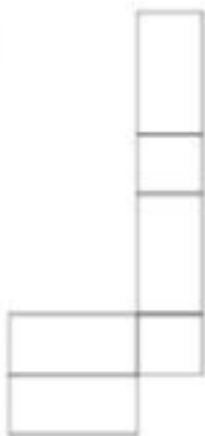
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D.



E.

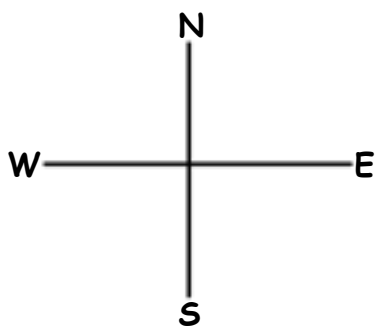


F.



Planning a Trip

1. The next time you take a trip, ask your child to plan the route. Have your child include in the directions the language north, south, east, and west. (Your child could calculate the number of city blocks for the trip, or the number of kilometers for a longer trip.)
2. Have your child find specific things based on directions you give your child. (e.g. Starting at the kitchen table take 3 steps north and 4 steps west.)



Compasses and traditional maps are tools for determining direction and distance.

Let's Talk About It

- Why is direction important when taking a trip?
- How are maps helpful?
- How can you find your destination without a map?

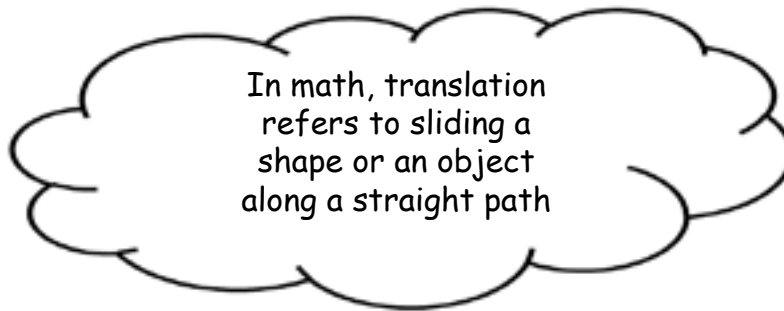
Translations in the Home

1. Ask your child to find some designs in the home or garden in which translations (slides) have been used to make patterns (e.g. wallpaper, designs on clothes, rows in a vegetable garden). Your child is also encouraged to look through magazines or newspapers for translations.

Example:



2. Ask your child to draw or take a picture of the two most interesting translations found in your home or garden, and describe where they were found.



Let's Talk About It

- Describe the translations you found.
- Why do you think translations are used?