

Name: _____ Date: _____

Inquiry Question

What geometric shapes can you find outside? Do you think you will find more from nature or more that are man-made?



Polygons are everywhere. Can you collect and organize shapes you find outside?

General Instructions

You are going to go for a walk and collect data on the polygons you observe.

Step One: Before you go, make some predictions.

Step Two: Collect data using a tally of the shapes you find. You may also wish to take pictures of the more interesting examples you find.

1		6	
2		7	
3		8	
4		9	
5		10	

Tally marks are a quick way of keeping track of numbers in groups of five. One vertical line is made for each of the first four numbers; the fifth number is represented by a diagonal line across the previous four.

(You learned about tallies earlier. You can review tallies there, if needed.)

Step Three: Reflect.

Were your predictions right? What surprised you? Did you find polygons in any unexpected places?

Project submission:

Your completed project submission is the worksheet below.

Step One: Predictions

Which polygon do you think you will be found the most? _____

Which polygons you think you will not find? _____

Do you think more polygons will be man-made or from nature? _____

Step Two: Collect data using a tally of the shapes you find. You may also wish to take pictures of the more interesting examples you find.

Tally the number of polygons you find for each choice. Remember, if possible, take pictures some interesting examples.

CHOICES	TALLY - NATURAL	TALLY – MAN-MADE
Triangle		
Square		
Rectangle		
Pentagon		
Hexagon		
Heptagon		
Nonagon		
Decagon		
Kite		
Parallelogram		
Trapezoid		
Rhombus		

Step 3: Reflect.

Which polygon did you find the most? _____

Which polygons did you not find? _____

How many were from nature (natural)? _____

Geometric Shapes

How many were man-made? _____

Were more polygons will be man-made or from nature? _____

What is the difference between the number of man-made and the number from nature?
(HINT: Make a subtraction equation.)

What surprised you? Did you find polygons in any unexpected places?

Optional:

If you took pictures, pick 4-5 interesting pictures. Put them into a document and give each picture a caption that tells which polygon it shows and anything else you'd like to say about it.