

Name: _____

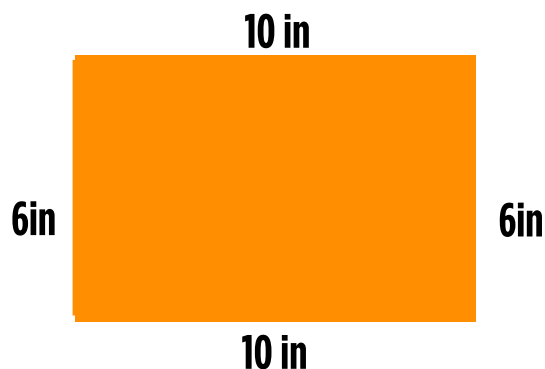
Calculating Area and Perimeter

Area is the amount of space the inside of the shape takes up.

To find the area of a shape, multiply the length of a shape by its width.

Example:

If a shape has 2 sides that are 10 inches long and 2 sides that are 6 inches wide. What is the area of this picture?



Perimeter= side + side + side + side

$$\text{Perimeter} = 6 + 6 + 10 + 10$$

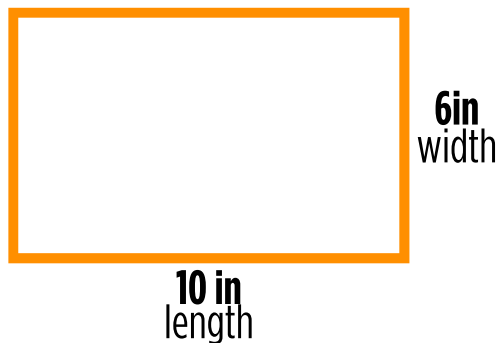
$$\text{Perimeter} = 32 \text{ inches}$$

Perimeter is the distance around the outside of a shape.

To find the perimeter of a shape, you add the lengths of all the sides.

Example

If a shape has 2 sides that are 6 inches long and 2 sides that are 10 inches wide. What is the perimeter of the shape?



Area= length x width

$$\text{Area} = 6 \text{ (length)} \times 10 \text{ (width)}$$

$$\text{Area} = 60 \text{ inches}$$

Name: _____

Steps to Create and Analyze Hieroglyphs

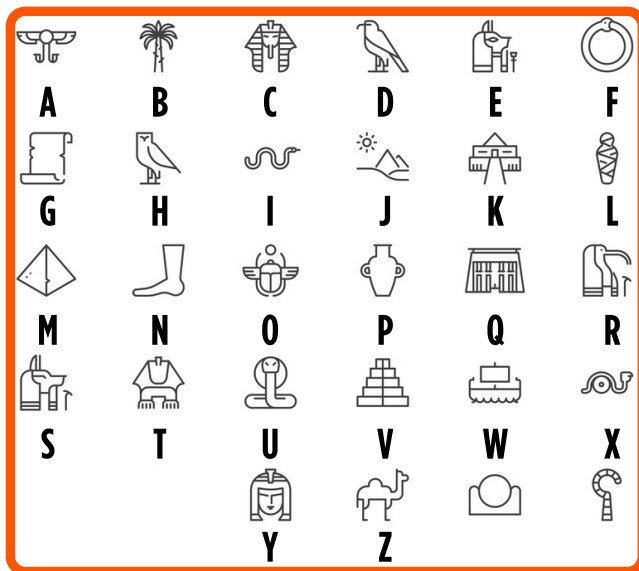
Step 1: Write Out a Message

You will write out a message in English.

The English word or phrase : _____

Step 2: Create Hieroglyphs

You will now write out your English word or phrase using hieroglyphs. Use the chart below for ideas on what symbols you should use to share your message. You can use the symbols from the chart or create your own. Circle the symbols on the chart you would like to use or brainstorm ideas about your own symbols in the box below:



Brainstorm symbol ideas here:

Next, you will need to decide how you want to organize your message. Think about the following questions:

- Should your hieroglyph message be very small, so it could be moved from place to place or should it be very large, so it can be read from a far distance away?
- Should all of your symbols be on one line, or should they be on multiple lines?
- Will all of your symbols be the same size? Or should some be larger than others?

Brainstorm ideas for how you will organize your message below:

Name: _____

Steps to Create and Analyze Hieroglyphs

Finally, create your hieroglyph message below. You may use as much or as little of the page as you want to. Remember to pay attention to the size of your message and the way the symbols are arranged.

Name: _____

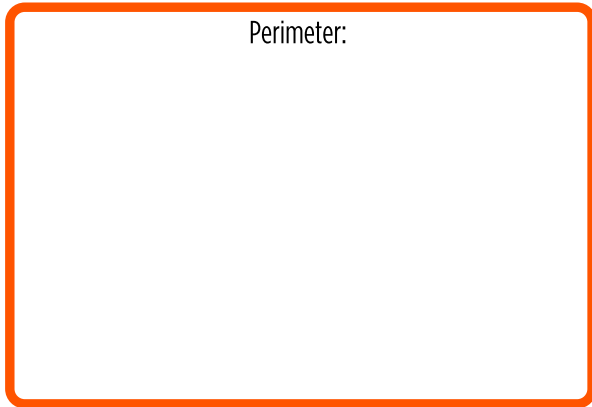
Steps to Create and Analyze Hieroglyphs

Step 3: Find Area and Perimeter of Your Hieroglyph

Use your ruler to create a 4-sided border around your hieroglyph message. It can be square or rectangular in shape.

Then, use your ruler to find the perimeter and area of your hieroglyph message. Be sure to include the units of measurement you used. Show your work in the boxes below:

Perimeter:



Area:



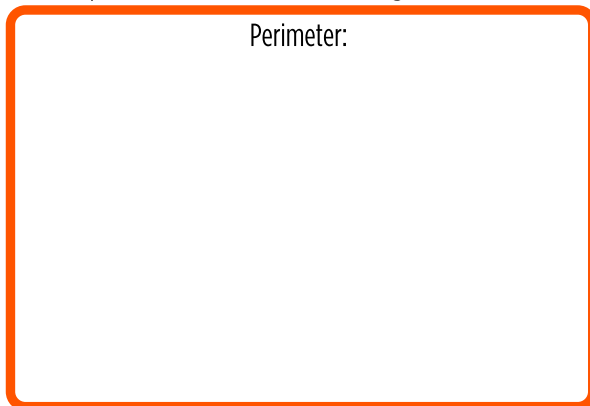
Step 4: Measure and Decode a Classmate's Hieroglyph

Switch hieroglyphs with a classmate. Then, look at their message and fill out the information below.

What message do you think the hieroglyphs are showing? _____

Calculate the perimeter and area of the message. Include the units of measurement and show your work below.

Perimeter:



Area:



Share your results with the hieroglyph's creator. Did you get the answers right? If not, try again!

Name: _____

How to Stain Paper

You will now make your hieroglyph paper look like it is really old. Follow the steps below to age your artifact and make it look like it was created hundreds of years ago.

1. Collect the following supplies from your teacher:

- Tray or pan large enough to fit your piece of paper
- Warm coffee
- Dixie cup (or other small paper cup)
- Sponge brush
- Instant coffee grounds
- Paper towels

2. Crumple up your paper. Then smooth it out as best you can and lay it flat in your tray.

- a. You may also choose to put a couple of small rips or tears in your paper.

3. Fill your small cup up about $\frac{1}{2}$ to $\frac{3}{4}$ of the way with warm coffee. Carefully pour the coffee over your document. Note: Your document should be damp all over. There should NOT be pools of coffee in your tray. You can use a sponge brush to spread your coffee out over the entire document, if needed. Sprinkle a small handful of instant coffee ground over the top of your document.

4. Allow the coffee grounds to sit for 3-5 minutes.

5. Use a paper towel to wipe away coffee grounds and soak up any extra coffee.

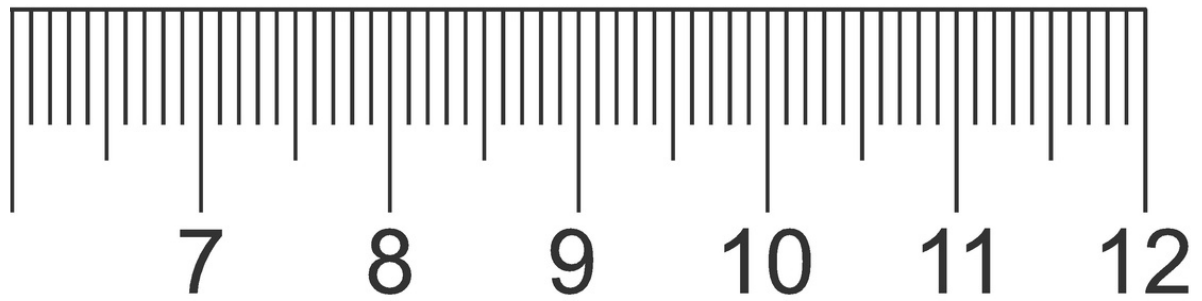
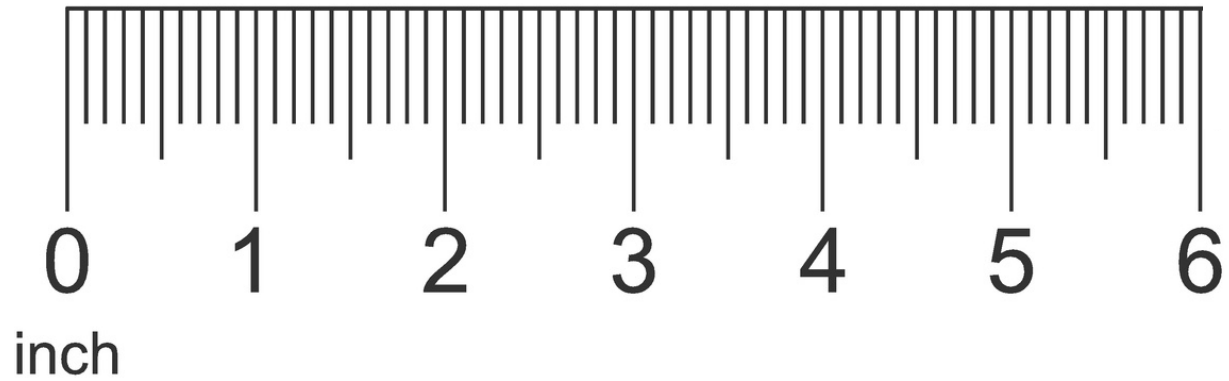
6. Lay out a couple of paper towels on a flat surface.

7. Take your document out of your tray and lay it on the paper towels to dry overnight.

Name: _____

Paper Rulers for Students

Cut each half of the ruler out and tape them together to help you measure!



Name: _____

Creating a Class Catalogue

You can create a class catalogue on a large sheet of paper.

To create a class catalogue on a large sheet of paper:

1. Create a chart with four columns.
2. Put "Student Name" for header in Column A
3. Put "Area of Hieroglyph" for header in Column B
4. Put "Perimeter of Hieroglyph" for header in Column C
5. Put "Message or Phrase" for header in Column D

Student Name	Area of Hieroglyph	Perimeter of Hieroglyph	Message or Phrase