



**BBILY**

Bilingual/Biliterate Instruction for Bilingual Youth

# **Welcome to the BBILY Mathematics Workshop #3**

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# Agenda

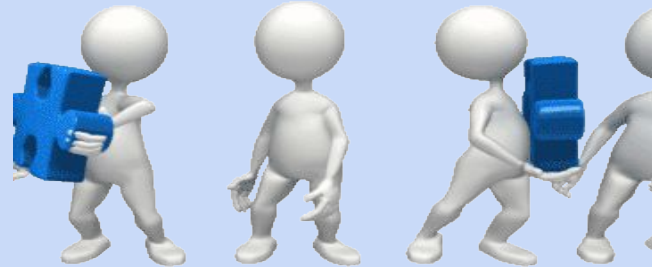
- Homework- Sharing of Workshop #2 Tasks with your child(ren)
- Guess My Shape Game
- Cognates
- Geometry in the Real World – Video
- Geometric Shapes in Your Home and Community
- Newspaper Geometry Task
- Homework for Workshop #3



# Homework Sharing

**What would you like to share with the group?**

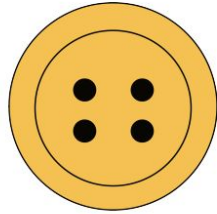
- Share a verbal math problem
- Which game from Workshop #2 did you share or play with your student?
- How did you support your student with math?



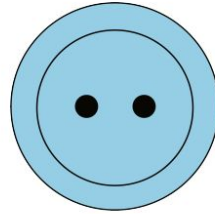
# Math talk

## Which one is different?

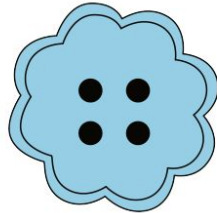
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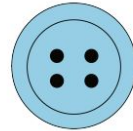
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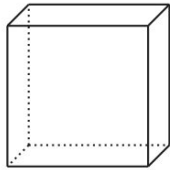
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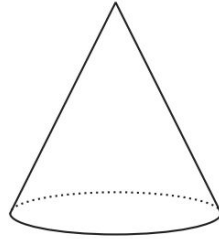
# Math talk

## Which one is different?

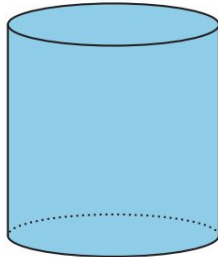
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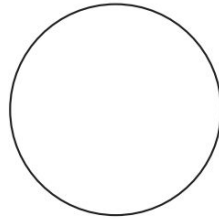
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# Guess My Shape

## Ready to Play?

### Shape #1

- I am a shape with no corners.
- I am a shape with no sides.
- I am the shape of a yolk of an egg that is fried.
- What am I?



**I am a...**



**Circle**

# Guess the shape

## Ready to play?

Shape #2



- I'm the four-sided shape on a hopscotch game.
- If you measure my sides, they will all be the same.
- What am I?

**I am a...**



square

# Guess my shape

## Ready to Play?

### Shape #3

- I have four sides, but I'm not square.
- I'm shaped like a dollar bill, a towel, and steps.
- Do you know who I am yet?



**I am a...**



**Rectangle**

# Guess the shape

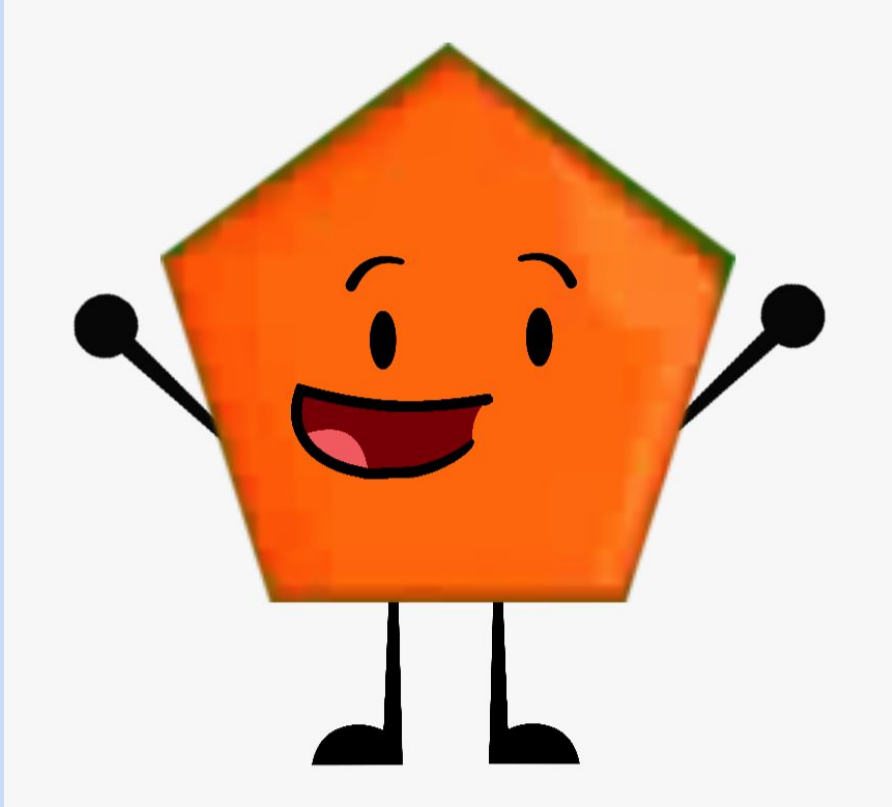
## Ready to play?

### Shape #4

- I have five sides.
- I am shaped like a school crossing sign.
- Do you know who I am yet?



**I am a...**



Pentagon

# Guess my shape

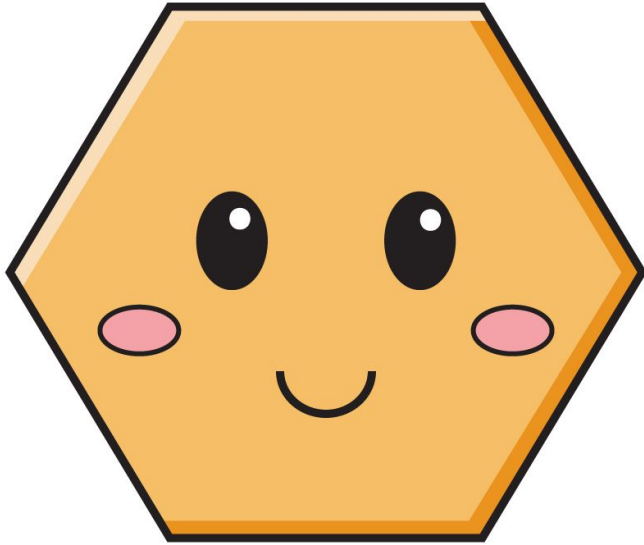
## Ready to Play?

### Shape #5

- I have six sides.
- I am often seen in the cells of a beehive.
- I am also found in nuts in a mechanic's workshop.
- Do you know who I am yet?



**I am a...**



hexagon

# Guess the shape

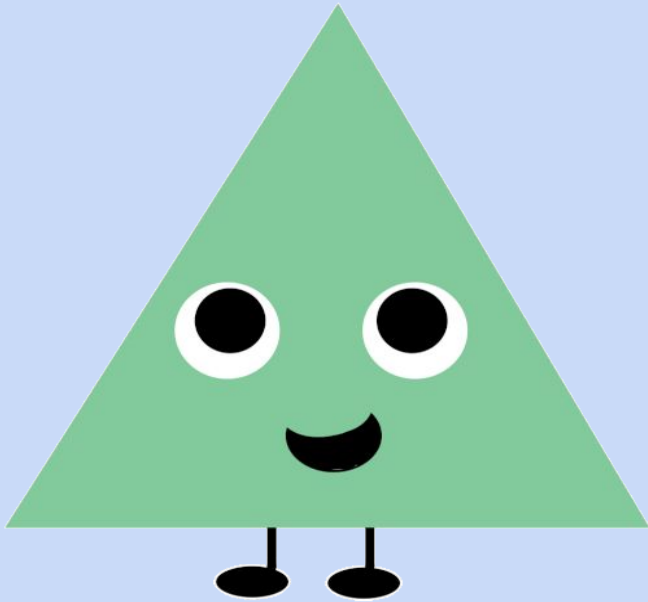
## Ready to play?

### Shape #6

- I have three sides.
- All my sides are the same size.
- You can find me in bags of Doritos.
- Do you know who I am yet?



**I am a...**



triangle

# Guess my shape

## Ready to Play?

### Shape #7

- I have eight sides.
- I am the shape of a stop sign.
- Do you know who I am yet?



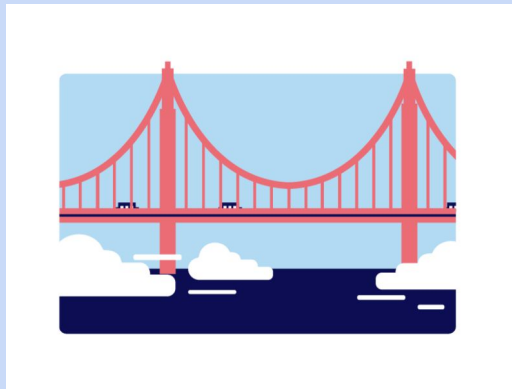
**I am a...**



octagon

# What are Cognates?

- Cognates are words in two languages that share a similar meaning, spelling, and pronunciation.
- In English there are 30-40% of words that have a related **word** in Spanish.
- Cognates can serve as a bridge between the two languages.



# Let's Investigate the Mathematics Cognates

- As you look through the list of cognates in mathematics, what are your thoughts?
- Notice that the cognates highlighted in yellow are the cognates specific to geometry.
- How do you think cognates can help to support your child/children's mathematical understanding as well as their bilingualism?

**Cognates**  
Words in two languages that have the same origin and are similar or identical.

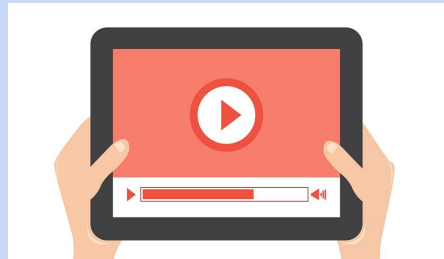
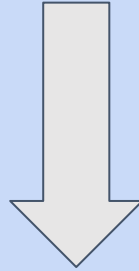
**Geometric Shapes**

**Cognados**  
Las palabras en dos idiomas que tienen el mismo origen y son similares o idénticas.

**Figuras geométricas**

# Geometry in the Real World

Let's watch the video below



# Discussion of the Video

- Your ideas/thoughts about the video?
- Do you agree that geometry can be found everywhere? Explain why or why not.



# Geometric Shapes in Your Home & Community

- Work with a partner and brainstorm where you see geometric shapes and objects in your home and community.
- Record your responses on the graphic organizer.
- Be ready to share your work with the whole group.

Item	Geometric Shape(s)



# Newspaper Geometry Task

- In groups of three, create an object made up of a minimum of **four different geometric shapes** that is sturdy enough to stand up.
- **Step 1:** Brainstorm what type of object to make. Work together to co-create the sketch on paper of the object you will make. Label the shapes in Spanish and English.
- After completing the sketch, have everyone sign the sketch. Check in with one of the workshop leaders before proceeding to Step 2.

# Newspaper Geometry Task

- **Step 2:** Make one newspaper dowel. You will all receive one pre-made dowel.
- To make a dowel, tightly roll on a diagonal a straw in a newspaper. Secure with tape. Everyone must contribute at least two dowels to the creation of the object.
- If the object requires more dowels to be made, then the group must make an additional dowel(s).
- Each person is required to co-construct the object by configuring and taping their own dowels.



# Newspaper Geometry Task

- **Step 3:** After your geometric object is created, be ready to share it with the whole group. Identify the geometric shapes in Spanish and English.
- The four different shapes must be identifiable. Remember, each object must be able to stand on its own.
- Have fun being creative and innovative!

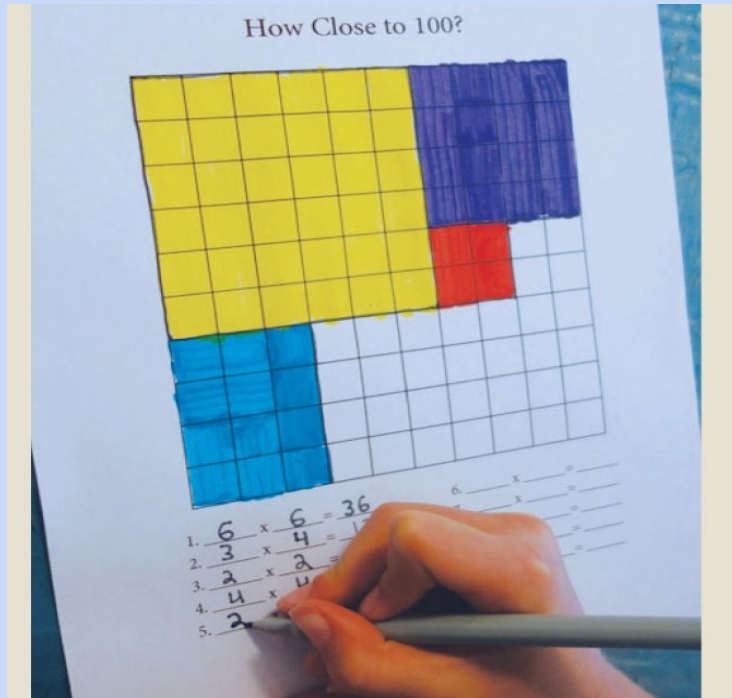


# Homework Suggestions

- Share today's video Geometry in the Real World with your child(ren).
- Take a walk in your neighborhood and community and have your child(ren) identify geometrical shapes they see.
- Create a geometry newspaper task or a 2D object or creature on paper.
- Support your child's/children's mathematical learning while at the same time support their mathematics language development in Spanish and English.
- Please bring in the tasks or pictures of the tasks to Workshop #4. You will have the opportunity to share it with our group 😊



# Game: How to close at one hundred



Thank You Everyone  
For Your  
Participation!



- We look forward to seeing you at Workshop #4
- Remember that **MATH IS BEAUTIFUL** and there is more to math than numbers.