

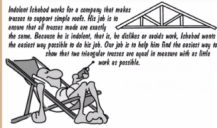
# LIMACON Conference

Spring 2021

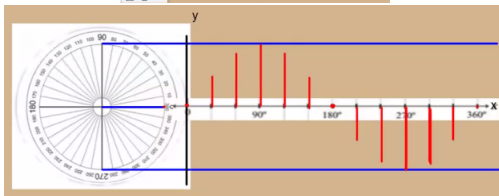
# About

- ▶ Long Island Math Conference for Educators.
- ▶ Sponsored by TI
- ▶ Virtual (Free)
- ▶ 16 sessions total (4x elementary, 4x middle, 4x high, 4x general)
- ▶ \$1500 Scholarship for Minority Students

# Session 1: Gems of Geometry



What is the minimum  
information we need to  
construct a triangle that is  
congruent to a given  
triangle?



# Session 1: Gems of Geometry

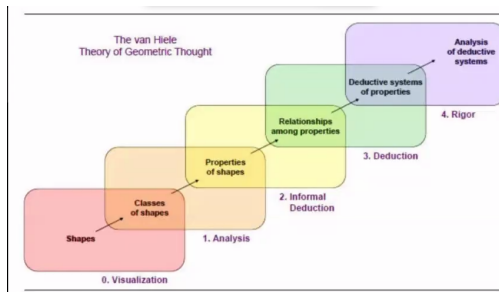


TABLE 1

The Van Hiele theory of geometric thought describes the different levels of understanding through which students progress when learning geometry.

Van Hiele theory of geometric thought

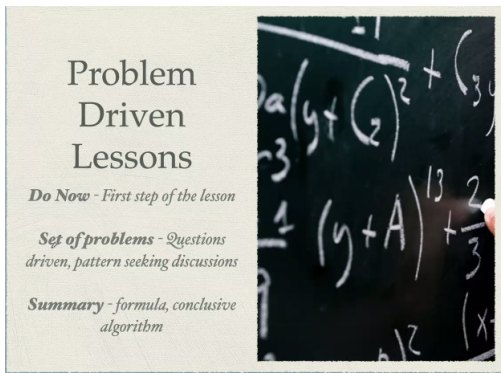
Level	Description	Ability of student
1	Visual	Describes shapes on the basis of their appearance
2	Analysis	Describes shapes on the basis of their properties
3	Abstraction	Recognizes the importance of properties and the relationships among them, which assist students in logically ordering the properties of the shapes
4	Deduction	Attains logical reasoning ability and proves theorems deductively
5	Rigor	Establishes and analyzes theorems in different postulation systems

## Session 2: BEST Method

- ▶ “BEST” Method for Problem Solving
- ▶ Brainstorm, Edit, Starting Point, Tier

## Session 3: Lessons for Understanding

- ▶ Balancing: algorithms vs. proofs; practice vs. development; “how” vs. “why”; doing vs. enjoying



# Session 4: Pixel-Art Activities

Directions: Click on the URL, to access the problem set. Type your answers on this sheet. Correct answers will reveal the mystery picture. Where applicable, use the / key for the fraction bar. And for the proportional relationship when the k value is a fraction, enter a space before the variable (ex.  $y = \frac{1}{3}x$ ). This is because you want to make clear that the x is NOT part of the denominator.

[https://drive.google.com/file/d/1UDSYTnCaFj0\\_TISNKHts/ToxKAMlpAQ5/view?usp=sharing](https://drive.google.com/file/d/1UDSYTnCaFj0_TISNKHts/ToxKAMlpAQ5/view?usp=sharing)

7 constant of proportional...

Constant of Proportionality - Graph

Identify the constant of proportionality for each graph and write the proportional relationship  $y = kx$ .

1)  $y = 7x$

2)  $k = \frac{4}{9}$

3)  $y = \frac{4}{9}x$

4)  $k = 5$  put a space between the k value and the x variable

5)  $y = 5x$

6)  $k = 14$

7)  $y = 14x$

8)  $k = \frac{1}{3}$

9)  $y = \frac{1}{3}x$  put a space between the k value and the x variable

Nancy Lin

Single color

Color scale

Apply to range

C6:I8,H11,M18,X14,V13,X12,V10,T

Format rules

Format cells #...

Custom formula is

$=\$C\$6 * ^{-1} \$I$

Formatting style

Custom

B I U G A - .

Cancel Done

+ Add another rule