

Applying a 5S Systematic Approach to Support Community- Based Efforts

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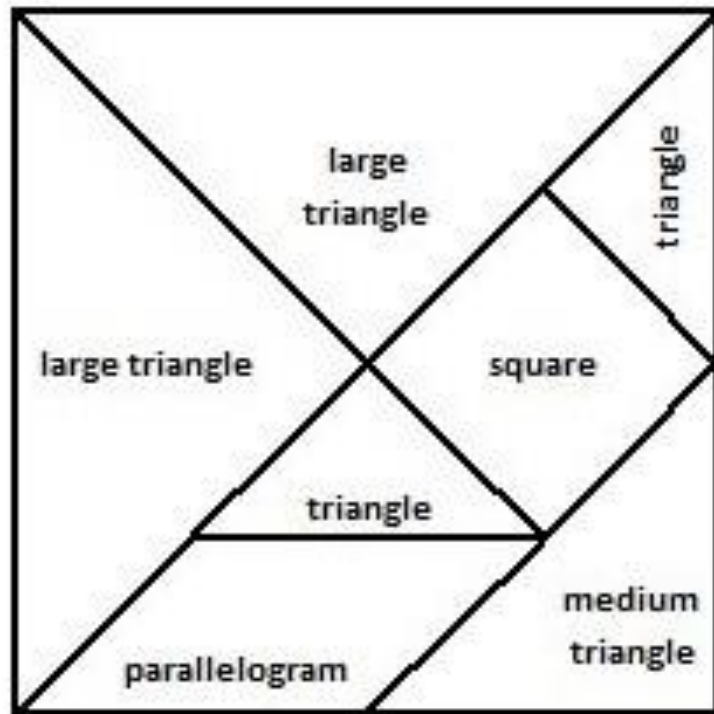
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Lean Fun Using Tangrams

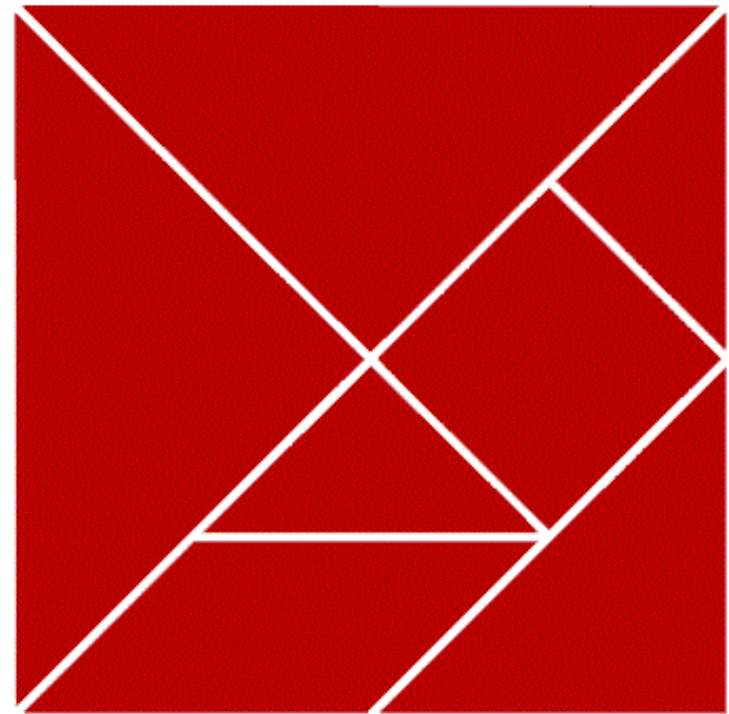


<https://www.hand2mind.com/item/foam-tangrams-set-of-28/3117>

Tangram Geometric Segments

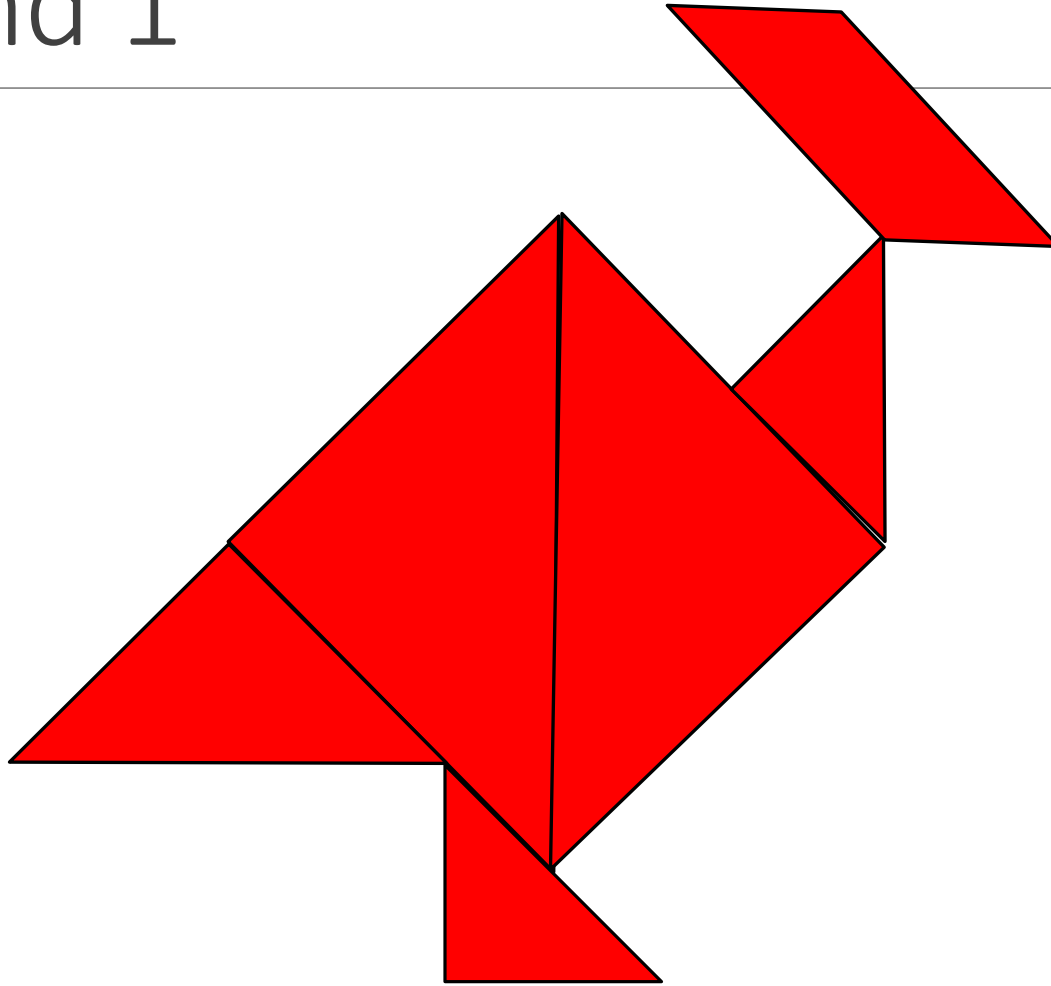


<https://goo.gl/images/MHsTbp>



<https://goo.gl/images/92YxHa>

Round 1

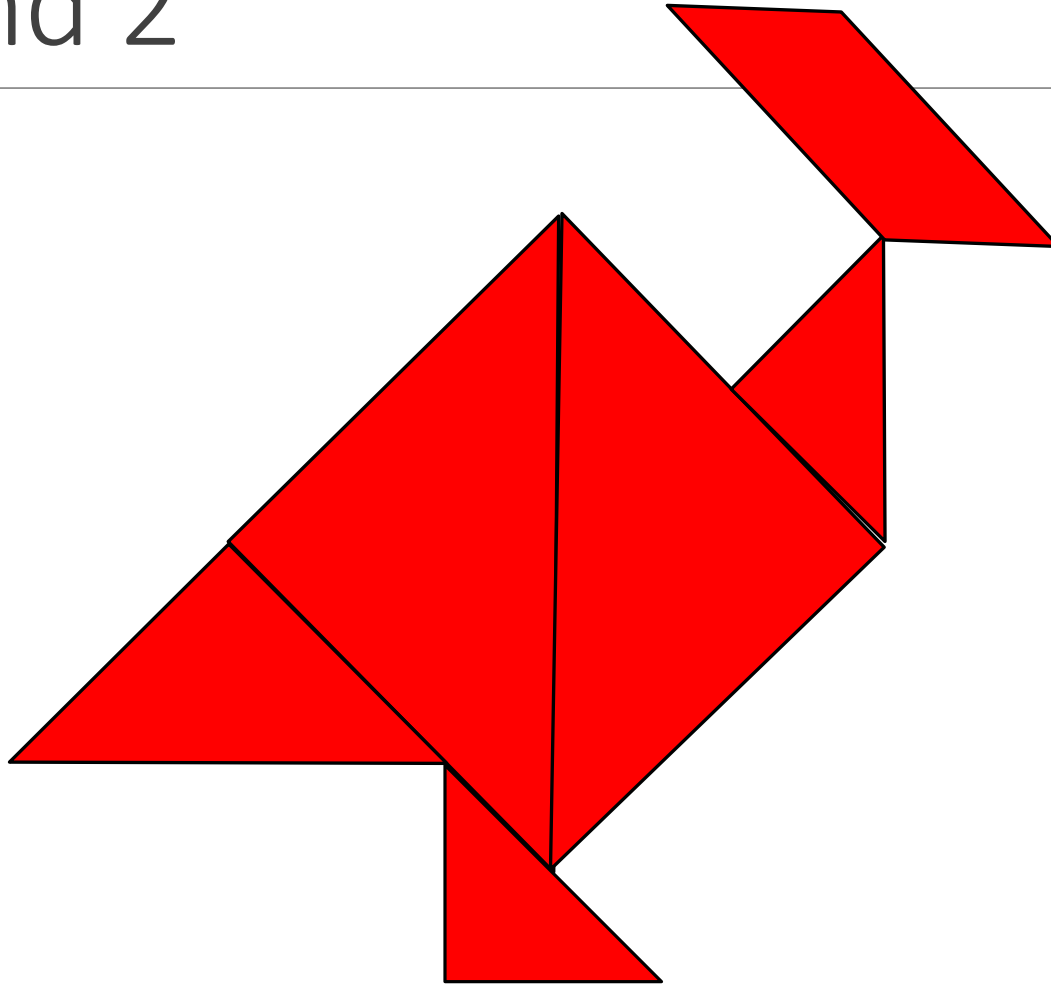


Round 1

Data Collection and Analysis

	Example	ROUND 1	ROUND 2	ROUND 3
Process Time in minutes	5			
Parts Completed	7			
Parts in Progress	11			
Parts in Box	28			
Parts per Minute (ppm) = Parts completed/Time	7 parts/5 min. = 1.4 ppm			
Estimated time to complete Parts in Progress = Parts in Progress /ppm	11 parts/1.4 ppm = 7.9 minutes			
Estimated time to complete box = 28 parts/ppm	28 parts/1.4 ppm = 20 minutes			

Round 2

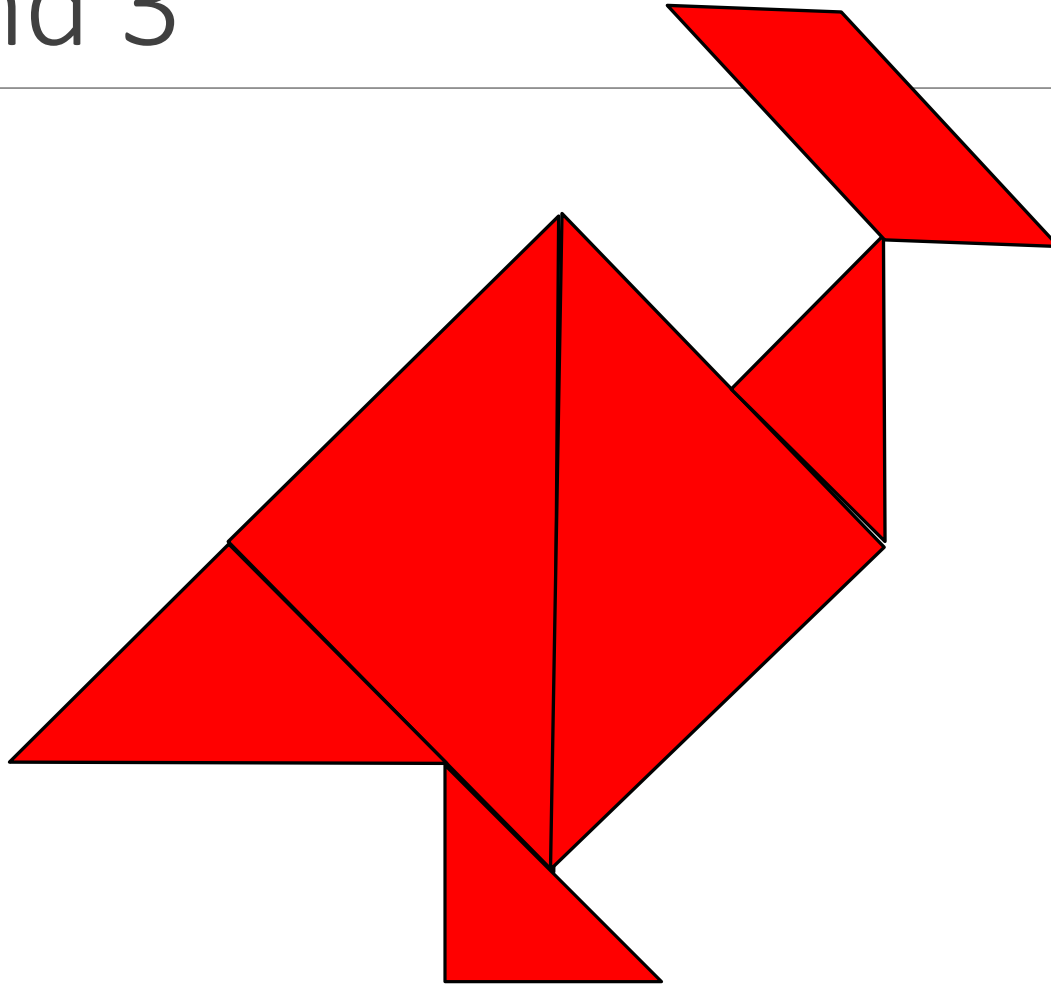


Round 2

Data Collection and Analysis

	Example	ROUND 1	ROUND 2	ROUND 3
Process Time in minutes	5			
Parts Completed	7			
Parts in Progress	11			
Parts in Box	28			
Parts per Minute (ppm) = Parts completed/Time	7 parts/5 min. = 1.4 ppm			
Estimated time to complete Parts in Progress = Parts in Progress /ppm	11 parts/1.4 ppm = 7.9 minutes			
Estimated time to complete box = 28 parts/ppm	28 parts/1.4 ppm = 20 minutes			

Round 3



Round 3

Data Collection and Analysis

	Example	ROUND 1	ROUND 2	ROUND 3
Process Time in minutes	5			
Parts Completed	7			
Parts in Progress	11			
Parts in Box	28			
Parts per Minute (ppm) = Parts completed/Time	7 parts/5 min. = 1.4 ppm			
Estimated time to complete Parts in Progress = Parts in Progress /ppm	11 parts/1.4 ppm = 7.9 minutes			
Estimated time to complete box = 28 parts/ppm	28 parts/1.4 ppm = 20 minutes			

5S Systematic Approach Overview

- Sort
- Systemize (Set in Order)
- Shine
- Standardize
- Sustain

Sort

To improve work flow,

- group like items in a work area.
- reduce clutter by removing all unnecessary tools, parts and supplies from the work area.
- Reduce time wasted searching for tools and parts.

Systemize (Set in Order)

- Simplifying
- Involves the systematic organization of items for easy and efficient access.
- Use tapes and/or labels to designate locations
- Reduces waste in motion, searching, and human energy.

Shine

- Establish a routine to maintain a clean work area including all tools and equipment. The area is cleaned as the work is performed
- Remove or repair defective tools and equipment.
- Ensure work area is safe and free of hazardous or dangerous conditions.

Standardize

- Create consistency based on order and structure.
- Establish procedures for maintaining and sustaining order and structure.

Sustain

- Involves education, communication, and supervisory and management engagement to ensure that everyone adheres to the standards developed for workplace organization.
- Encourages continuous improvement.
- Implement a discipline for culture change to maintain the 5S concepts.

Questions?

References

"The Dot Game"; Net Objectives;

<http://www.netobjectives.com/resources/articles/the-dot-game>