TLJ CONSULTING GROUP

creating & sharing mathematical experiences

Math in Focus: Looking at Mathematics Through the Lens of a Camera

Created by

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Architecture

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Architecture

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Facilitation Notes

The following collection of photographs can be used as journal prompts, discussion starters, bell ringers, or for centers, small groups, or learning stations.

These pictures provide opportunities for students to engage in mathematics through looking at pictures of architecture in the world.

As a starting point, have students free write what they see and describe it. Secondary students can “match the graph” by creating functions to mirror the structures or parts of the structures.

If you would like the original photo to upload to the Nspire, Sketchpad, etc. email me at:

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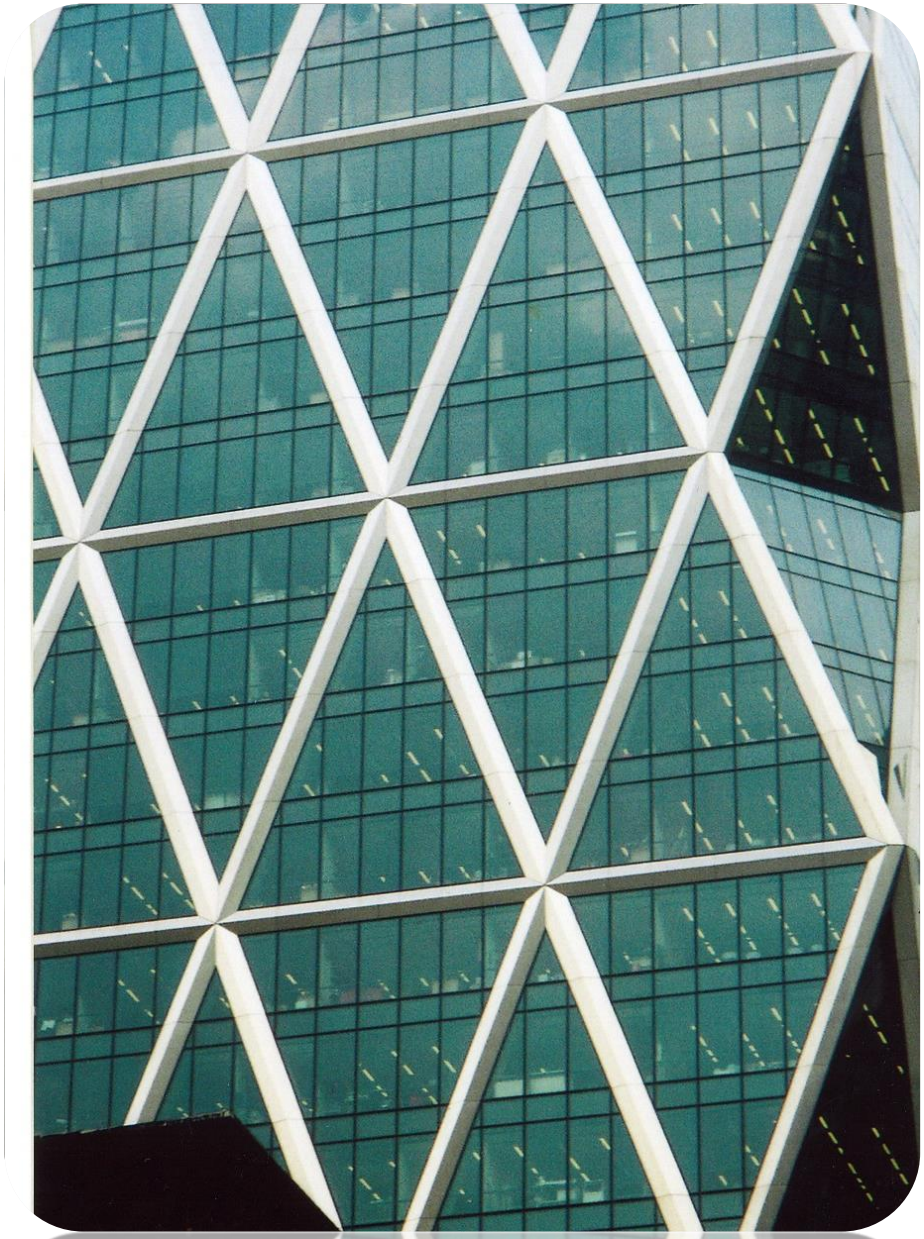

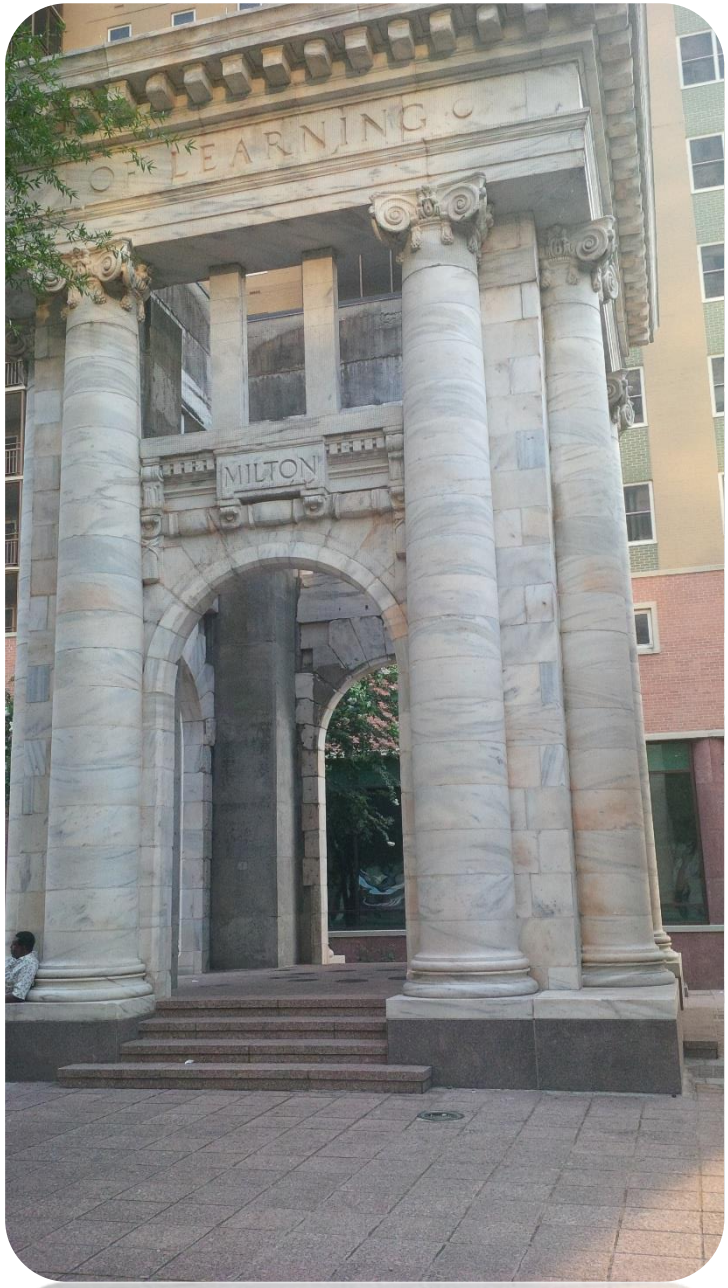

Math in Focus:
Looking at Mathematics through the lens of a camera
Fractions, Decimals, & Integers

Photos by Tammy L Jones

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Facilitation Notes

The following collection of photographs can be used as journal prompts, discussion starters, bell ringers, or for centers, small groups, or learning stations.

These pictures provide opportunities for students to engage in mathematics through looking at pictures of fractions, decimals, & integers in the world.

Facilitation Notes

As a starting point, have students free write what they see and describe it. Have them research and think about other places fractions, decimals, and integers occur in their daily lives.

Some questions:

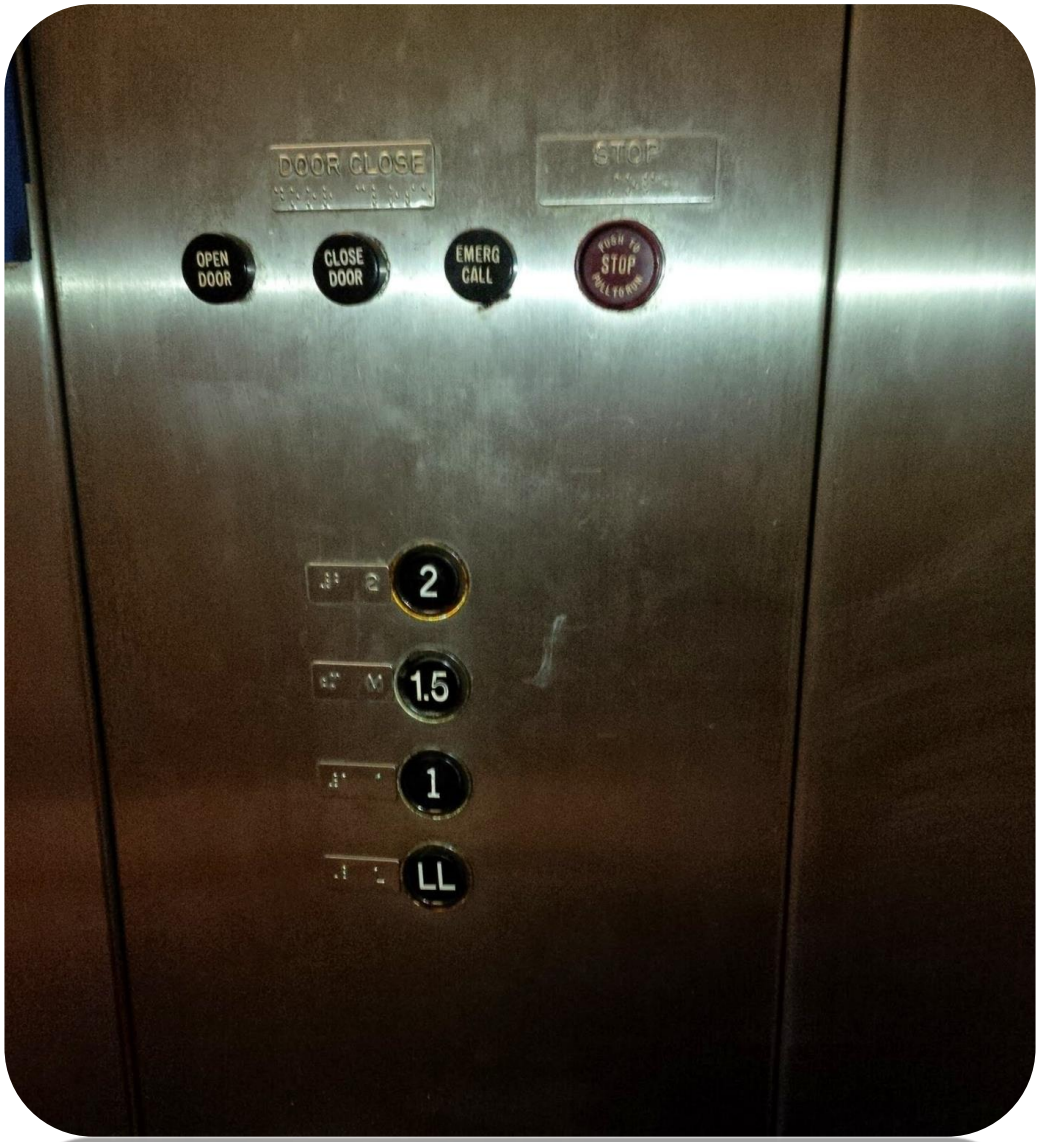
Where would the 1.5 floor be? Where are Floor 0 and Floor -1?

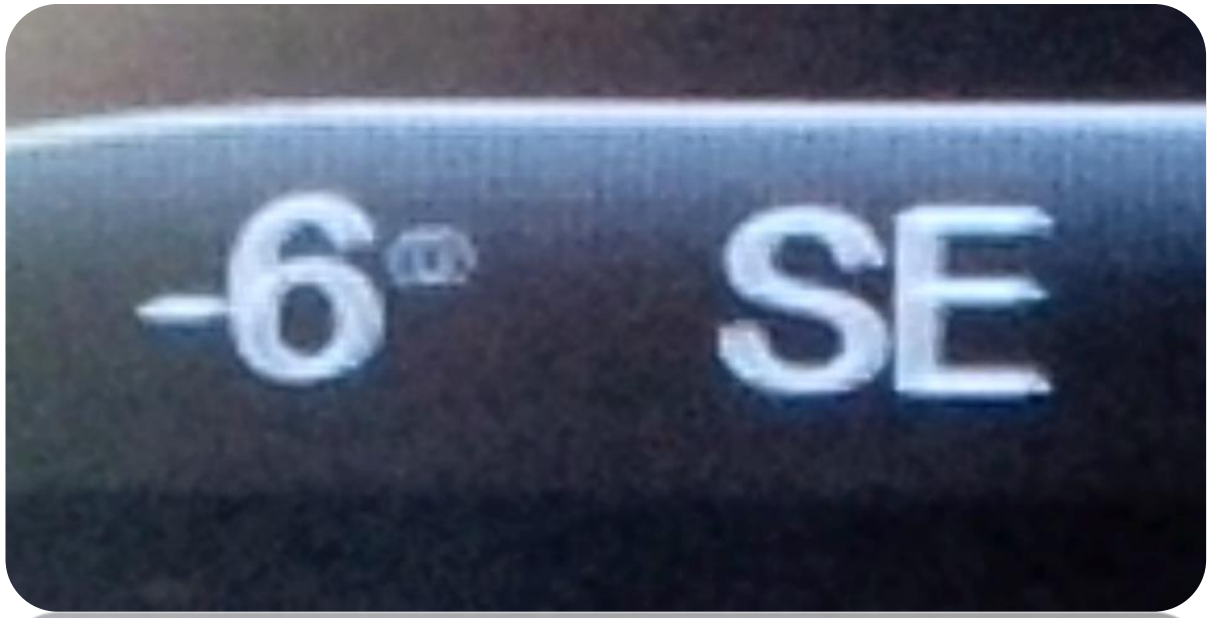
What would be the difference in some of the temperatures recorded by my car's external thermometer?

Facilitation Notes

Students can also engage in dimensional analysis with the speed limit signs.

The produce slides offer interesting settings to discuss quantities and how much is really in a bushel and how big would the container be…what would be the volume?





PRODUCT DETAILS

Bell Peppers

Sizes: Jumbo, XX-Large, X-Large, Large, Medium, Small, and Choice

Colors: Green, Yellow, Red, Mixed Red, and Suntan subject to avail.

Packing Options: 1 1/9 Bushel, Place-packed 36 count, Place-packed 45 count, Display, and R.P.C.

Availability: Florida - Nov. 1 thru May 31
Georgia - Mid May thru July 4; Oct. thru Dec.

Green Beans

Packing Options: Wood Crate, 1 1/9 Bushel, and R.P.C.

Availability: Florida - Nov. thru May

Cucumbers

Sizes: Super select, Select, Small, Large, Carton and Plain

Packing Options: 1 1/9 Bushel, R.P.C.

Availability: Florida - Nov. thru May
Georgia - Late May thru July 4; Oct. thru mid-November

Squash (Green & Yellow)

Available Varieties: Yellow, Straight Neck and Crook Neck; Green Squash

Packing Options: ½ bushel, 1 1/9 Bushel, and R.P.C.

Availability: Florida - Nov. thru May
Georgia - May thru June; Sep. thru Nov.

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GEOMETRY

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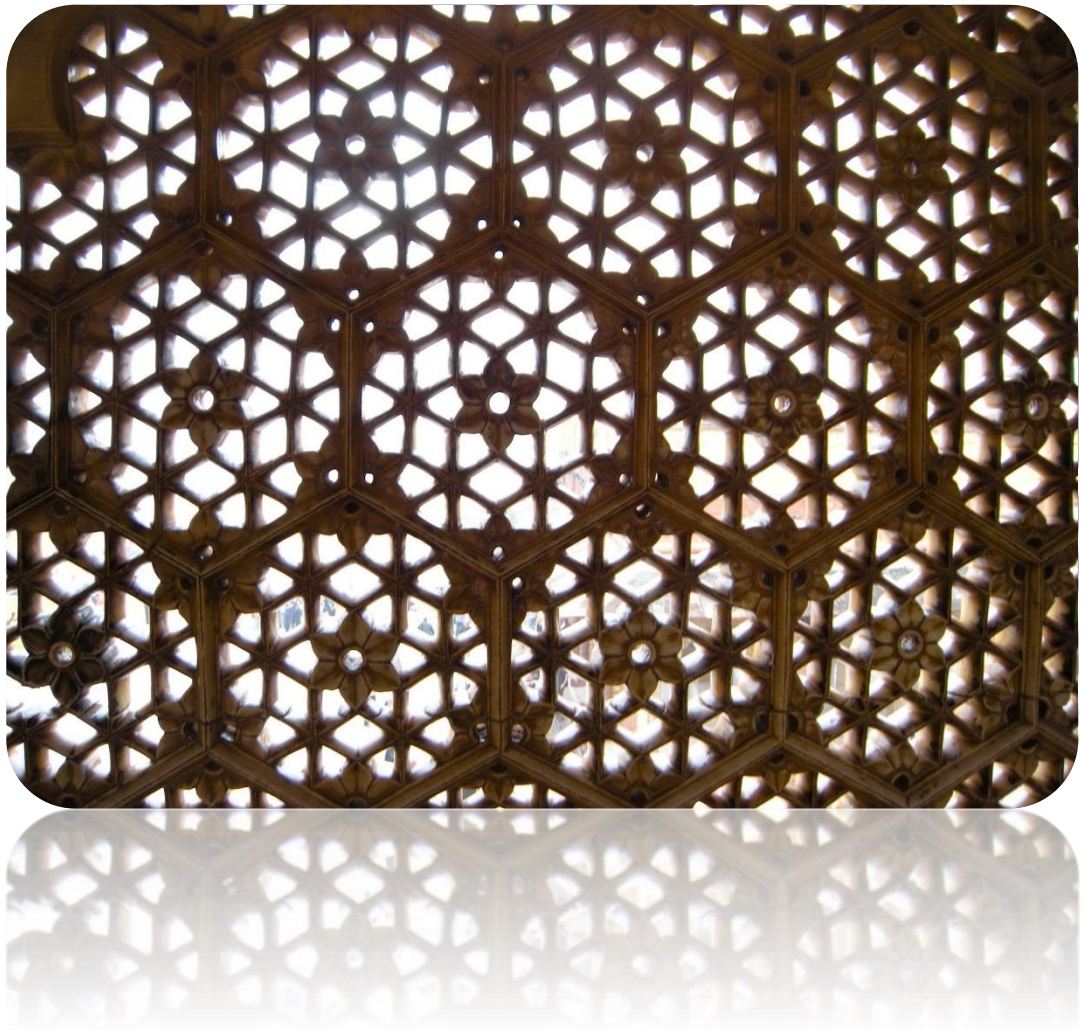
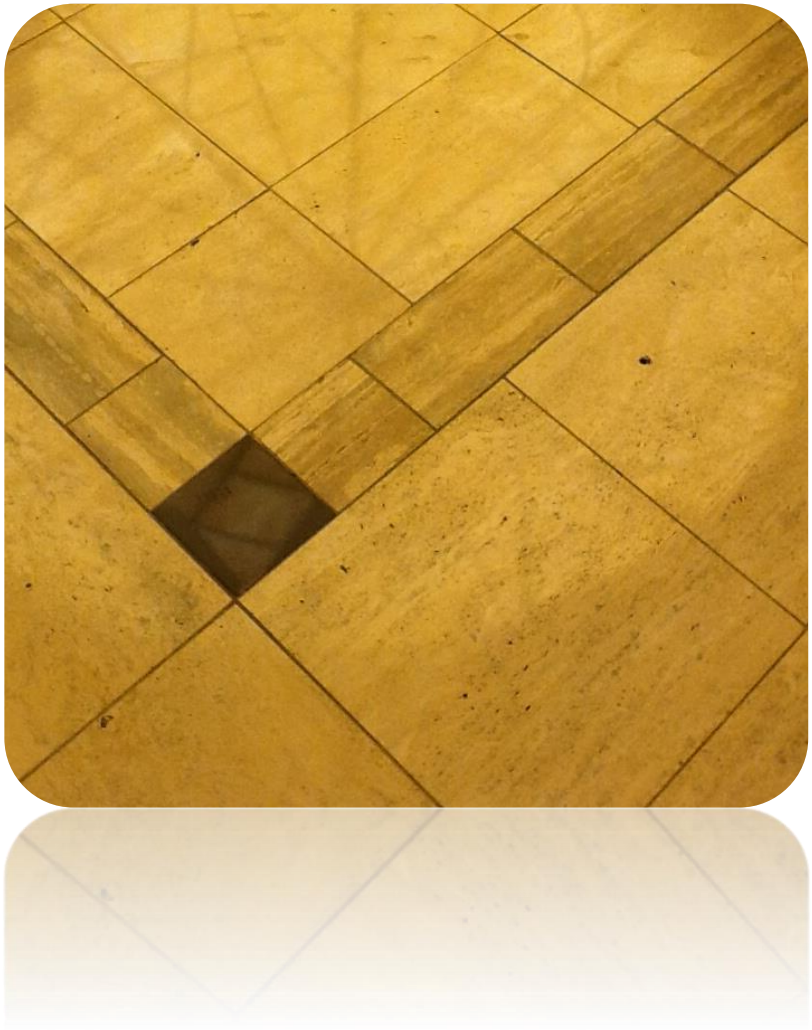
Facilitation Notes

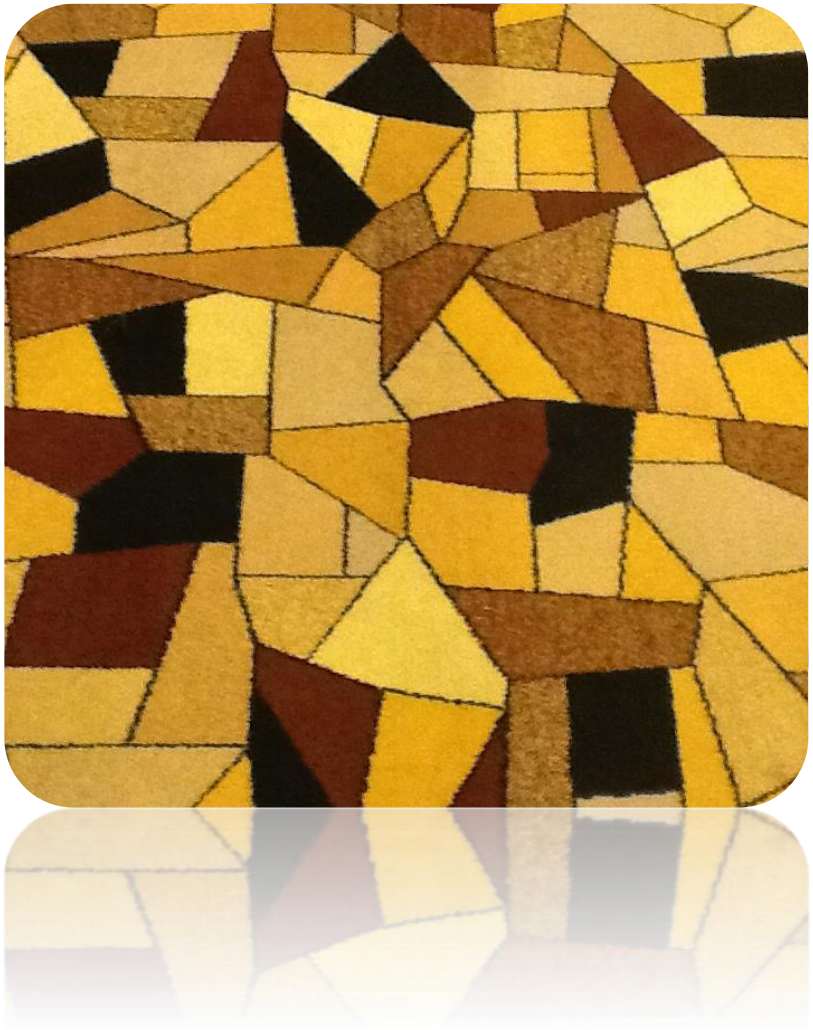
The following collection of photographs can be used as journal prompts, discussion starters, bell ringers, or for centers, small groups, or learning stations.

These pictures provide opportunities for students to engage in mathematics through looking at pictures geometry in the world.

As a starting point, have students free write what they see and describe it using geometric terms. Students can include numeric and algebraic descriptions as well.







Math in Focus:
Looking at Mathematics through the lens of a camera
Numbers in Arrays

Photos by Tammy L Jones

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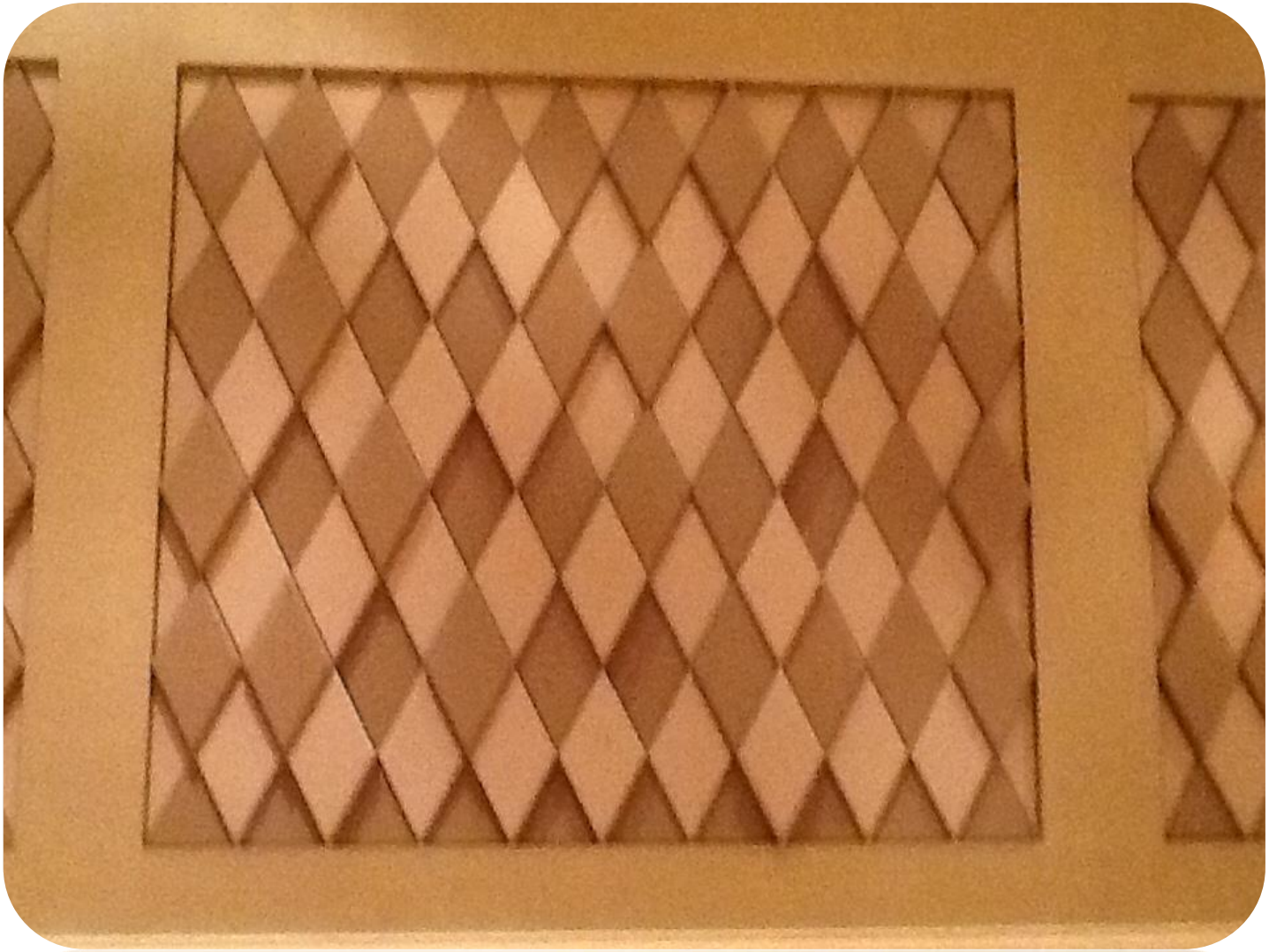
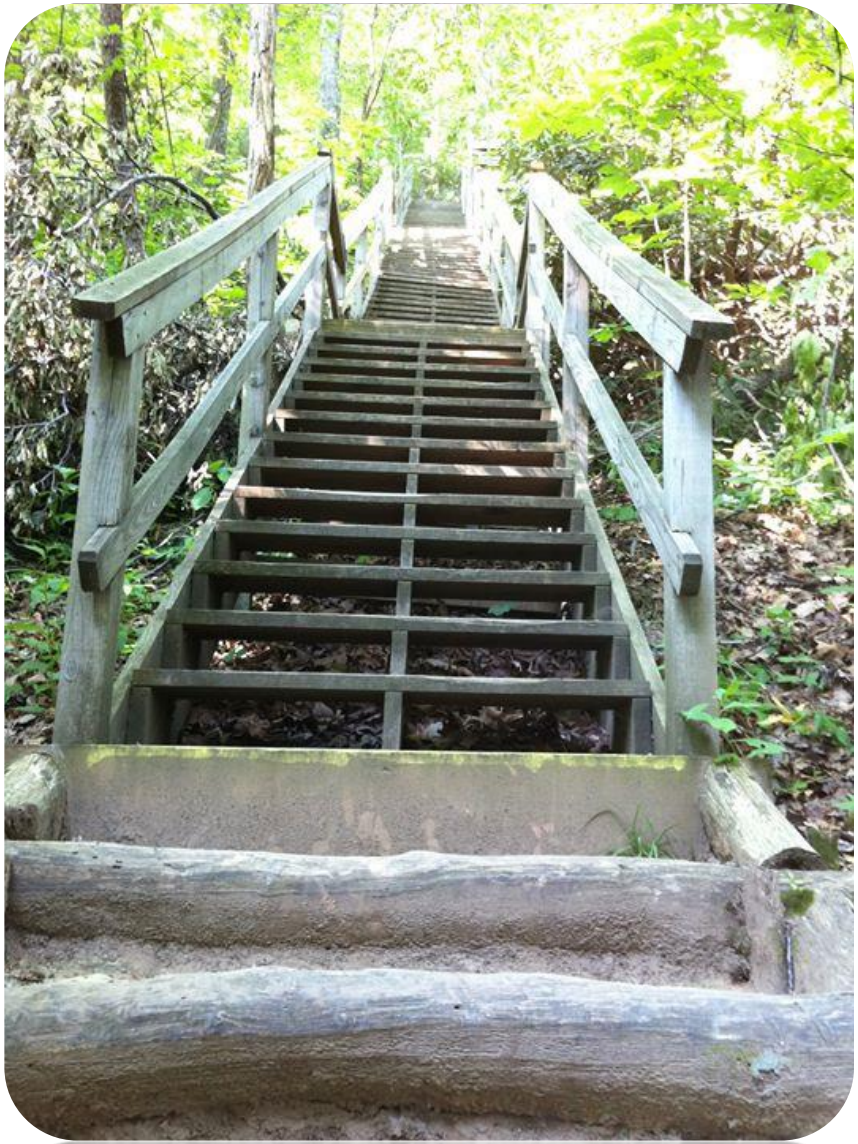
Facilitation Notes

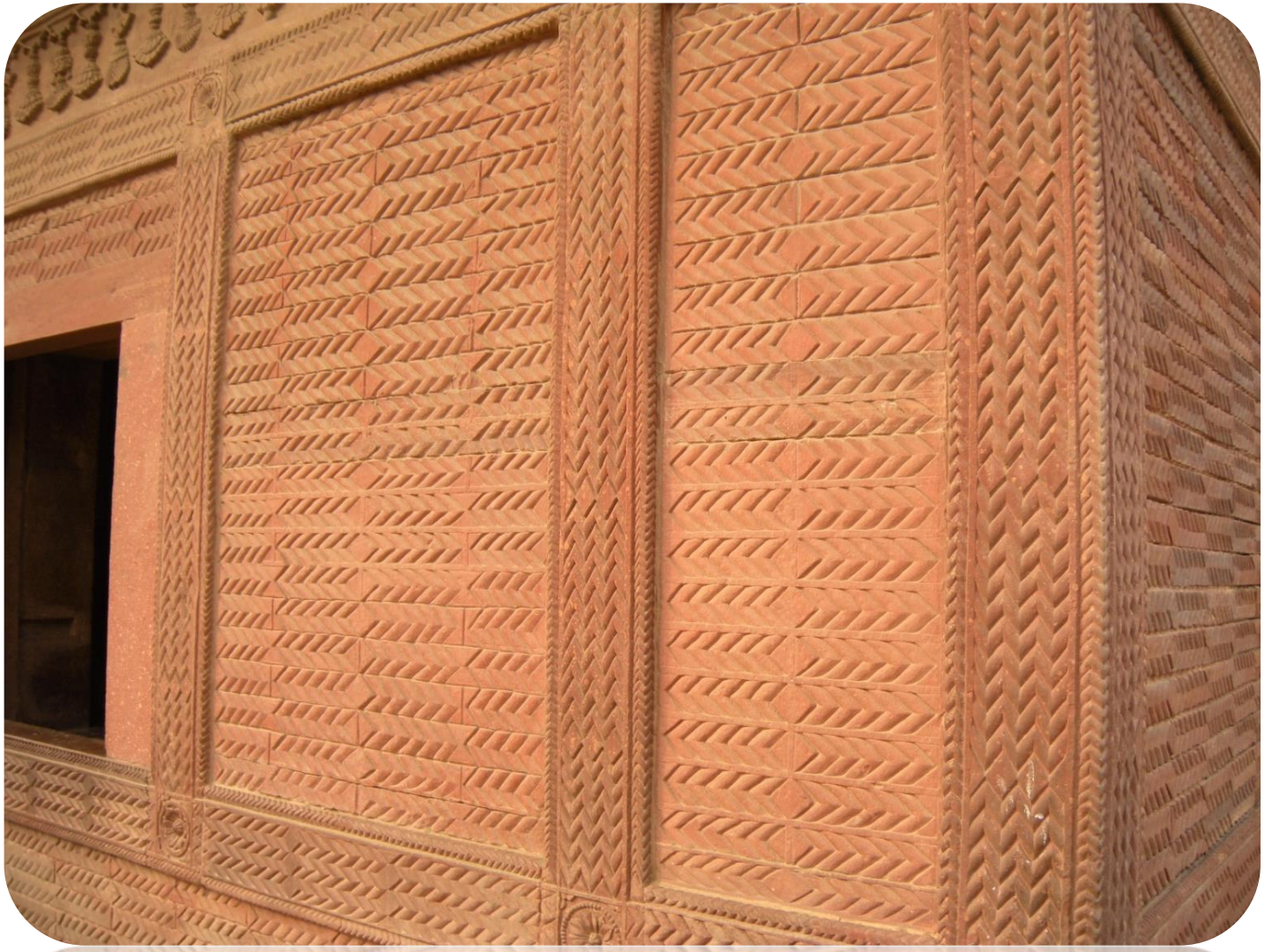
The following collection of photographs can be used as journal prompts, discussion starters, bell ringers, or for centers, small groups, or learning stations.

These pictures provide opportunities for students to engage in mathematics through looking at pictures of arrays and modified arrays in the world.

As a starting point, have students free write what they see and describe it using numeric terms and discussing the arrays. Students can include geometric and algebraic descriptions as well.







Math in Focus:
Looking at Mathematics through the lens of a camera
Odds & Ends

Photos by Tammy L Jones

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Facilitation Notes

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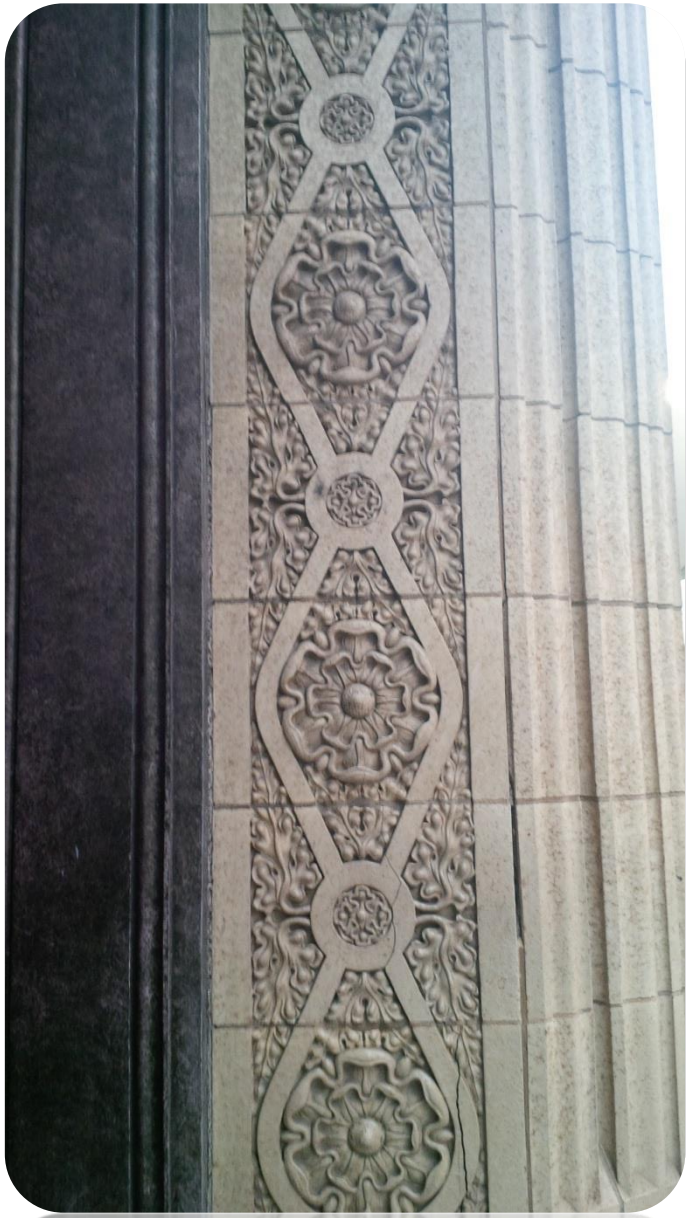
These pictures provide opportunities for students to engage in mathematics through looking at pictures of mathematics in the world.

Facilitation Notes

As a starting point, have students free write what they see and describe it.

- Geometric shapes – even sectors of circles in wood
- Symmetry
- The Science they see



Math in Focus:
Looking at Mathematics through the lens of a camera Sculpture

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These pictures provide opportunities for students to engage in mathematics through looking at pictures of sculpture in the world.

As a starting point, have students free write what they see and describe it. Younger mathematicians can think about composing and decomposing the shapes they see. Secondary students can "match the graph" by creating functions to mirror the structures or parts of the structures. Or, in the case of the Denver Bear, think up problems involving ratios, proportions, etc.

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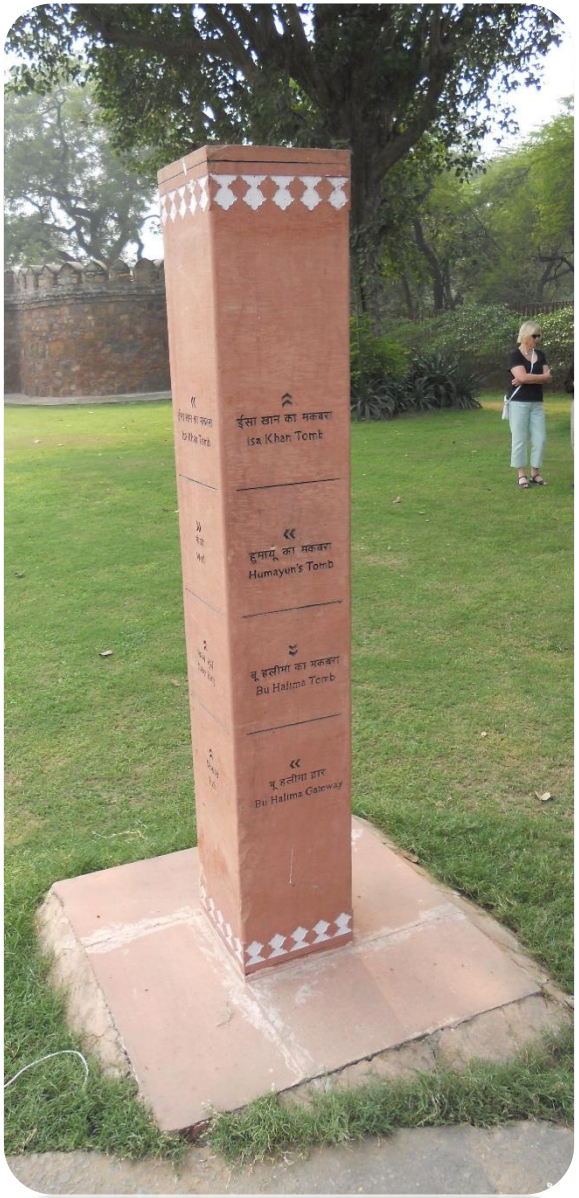

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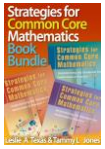

Strategies for Common Core Mathematics is currently available, these practical books provides an explanation of each of the eight mathematical practices and gives elementary school educators specific instructional strategies that align with the Common Core State Standards for Mathematics. K-5, 6-8, 9-12