



Flat Shapes All Around Us



Student Workbook



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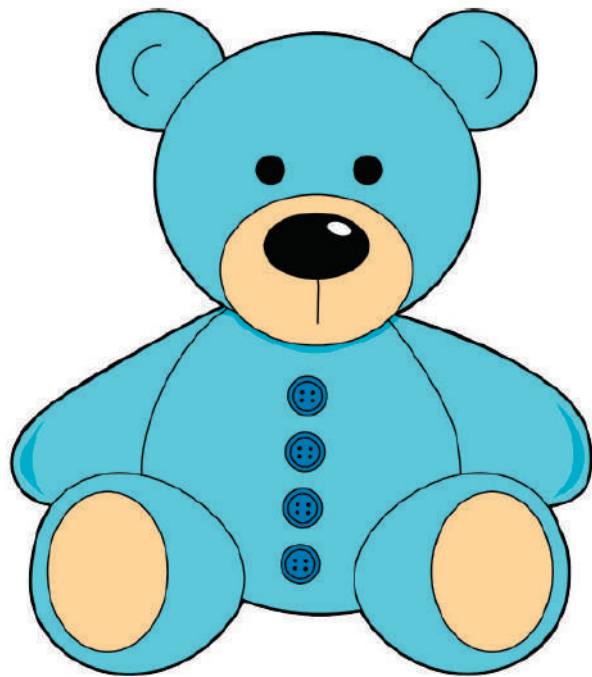
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Flat Shapes All Around Us
Student Workbook
Core Knowledge Mathematics™

Flat Shapes All Around Us

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Lesson 1: What We Know About Shapes

- Let's find and talk about shapes.

Warm-up: Which One Doesn't Belong: Teddy Bears



Which one doesn't belong?

A



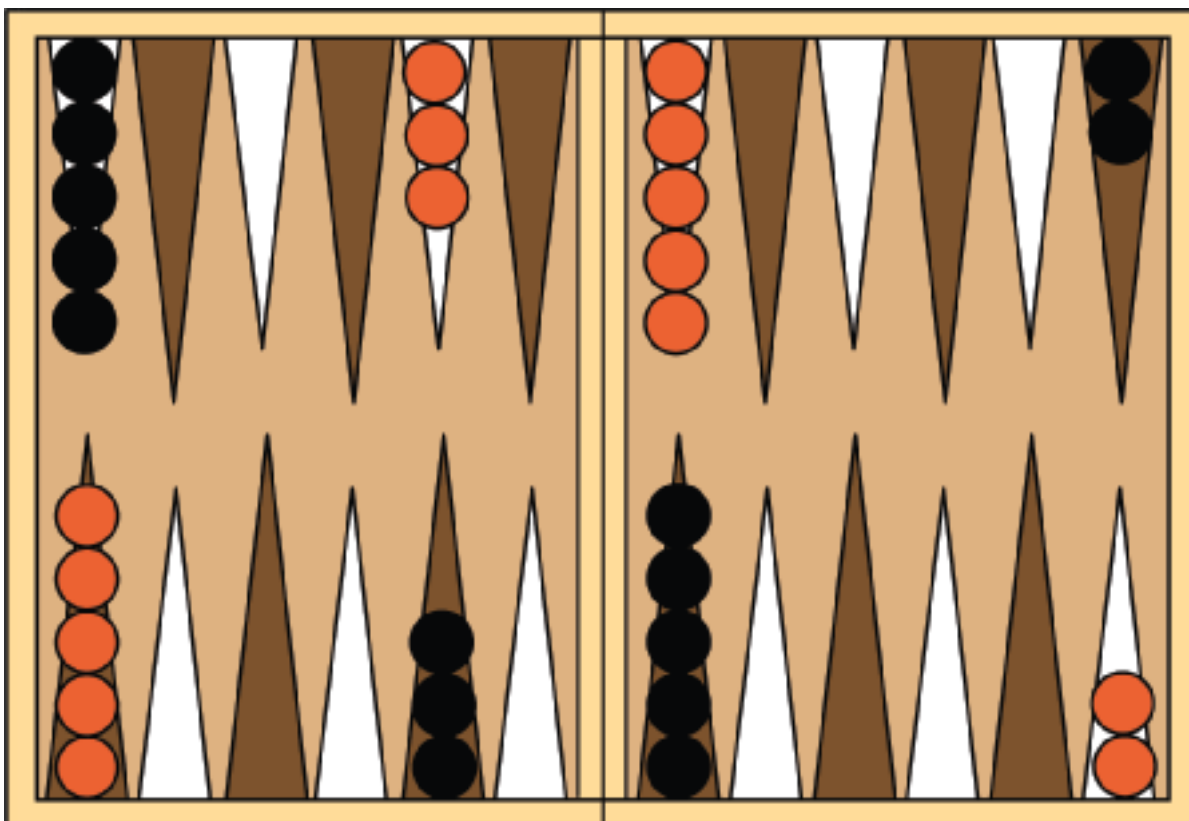
B



C



1.2: Shapes in a Picture



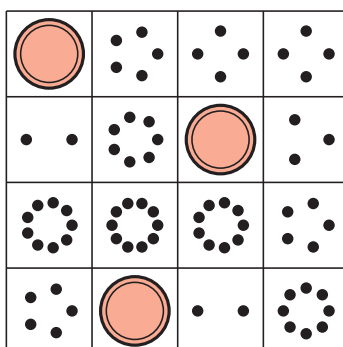
1.3: Centers: Choice Time

Choose a center.

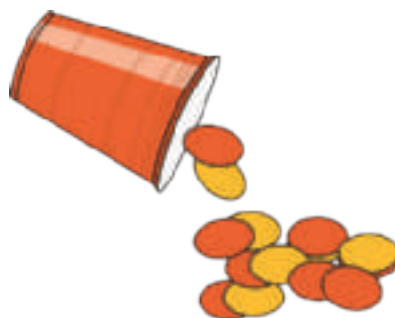
Picture Books



Bingo



Shake and Spill



Lesson 2: Match Shapes

- Let's find shapes that are the same.

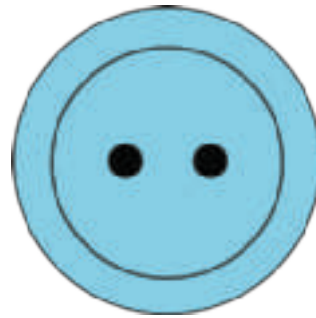
Warm-up: Which One Doesn't Belong: Buttons

Which one doesn't belong?

A



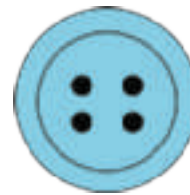
B



C

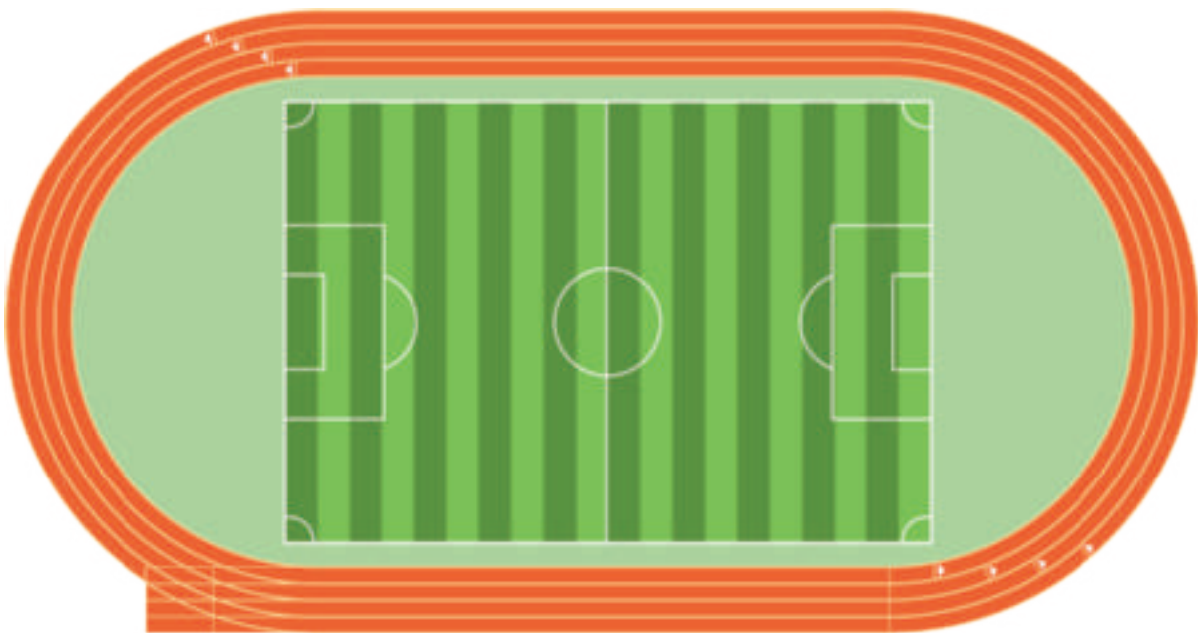
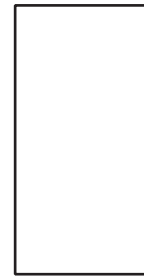
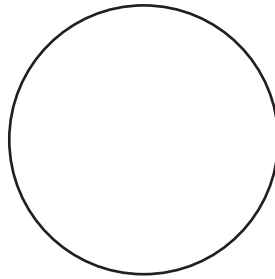
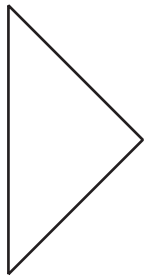


D



2.1: Match Objects and Shapes

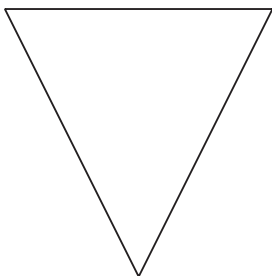
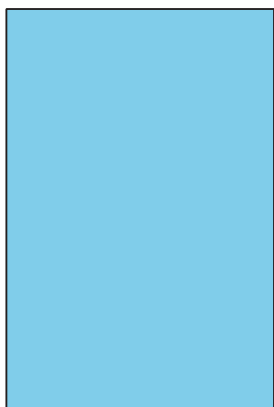
Draw a line to match each shape to the object that it looks like.



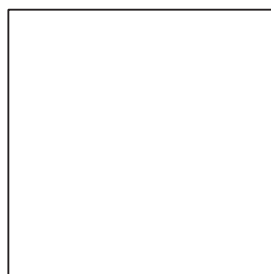
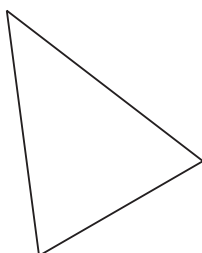
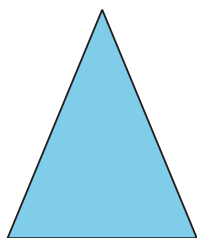
2.2: Which Shape is the Same?

Color the shape that is the same as the first shape in each row.

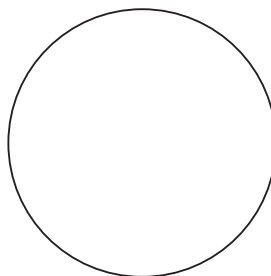
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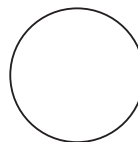
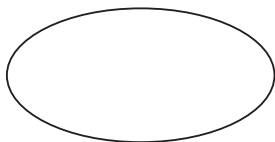
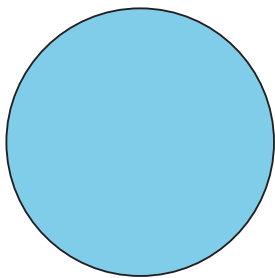
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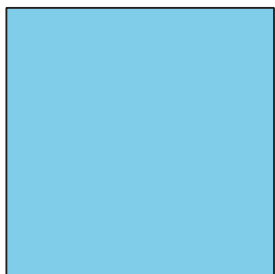
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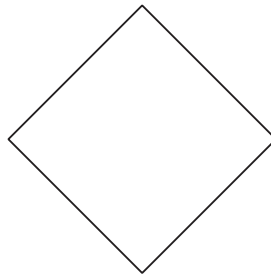
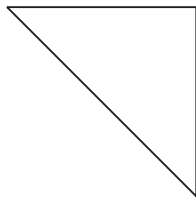
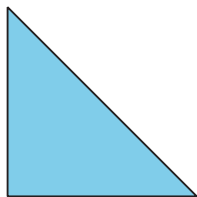
4.



5.



6.



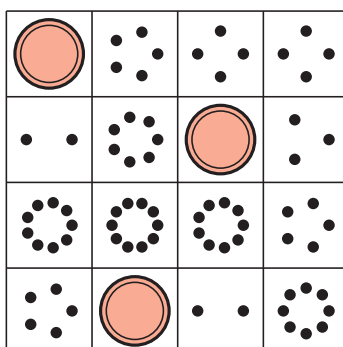
2.3: Centers: Choice Time

Choose a center.

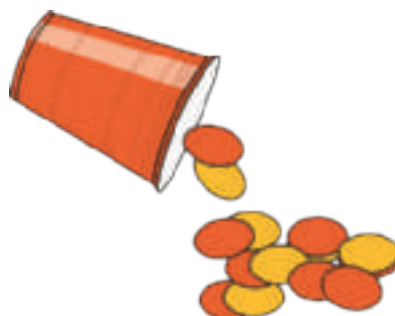
Picture Books



Bingo



Shake and Spill



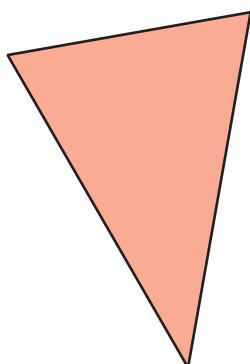
Lesson 3: Describe and Compare Shapes

- Let's compare shapes.

Warm-up: Which One Doesn't Belong: Compare Shapes

Which one doesn't belong?

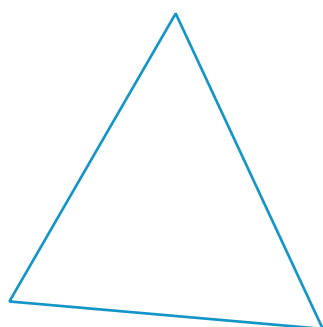
A



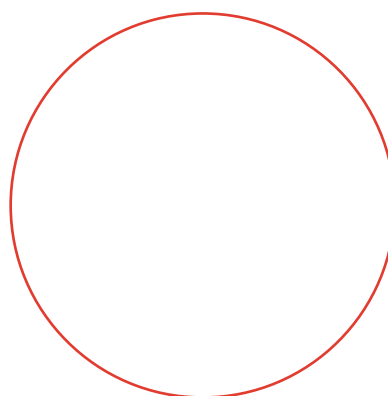
B



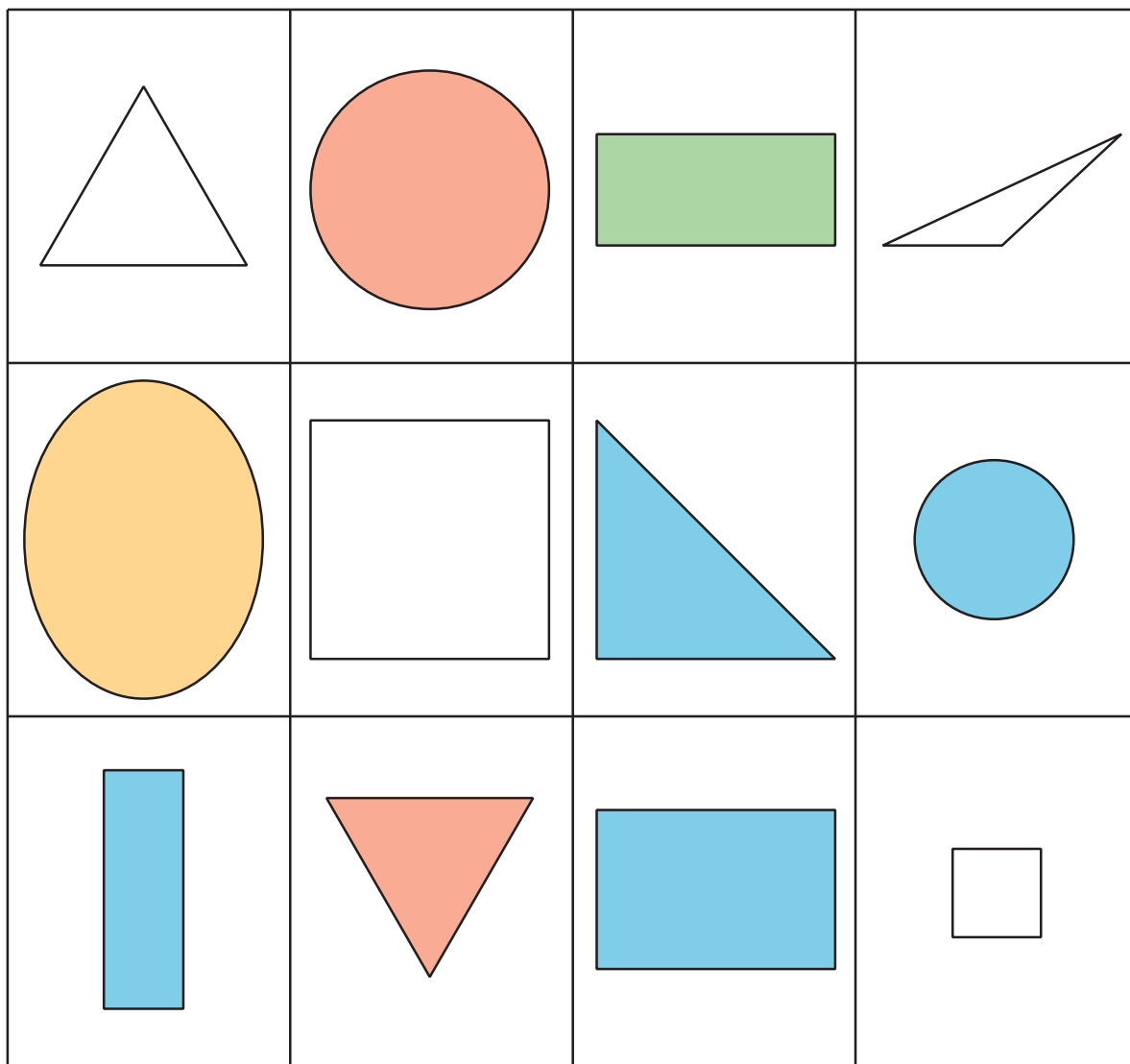
C



D



3.3: Introduce Which One, Shapes



Choose a center.

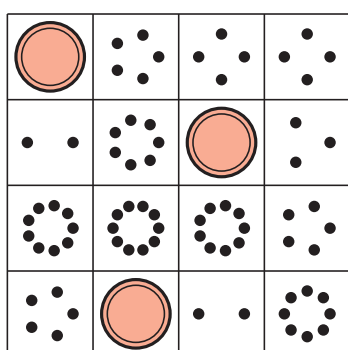
Which One



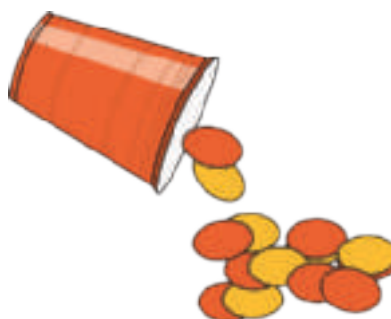
Picture Books



Bingo



Shake and Spill

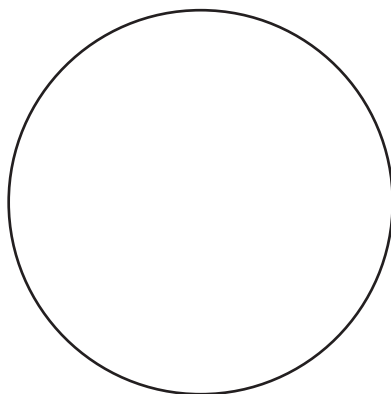


Lesson 4: Describe, Compare, and Sort Shapes

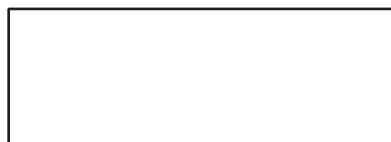
- Let's describe and sort shapes.

4.1: Classroom Shape Hunt

Shape A



Shape B



4.2: Shape Sort

4.3: Centers: Choice Time

Choose a center.

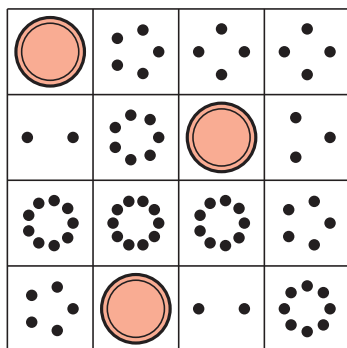
Which One



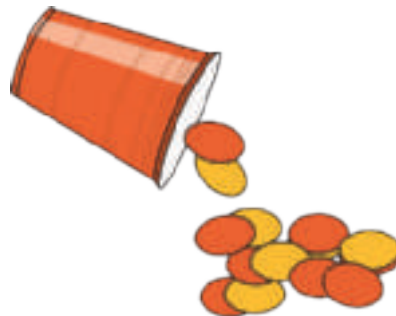
Picture Books



Bingo



Shake and Spill



Lesson 5: Circles and Triangles

- Let's learn the names of some shapes.

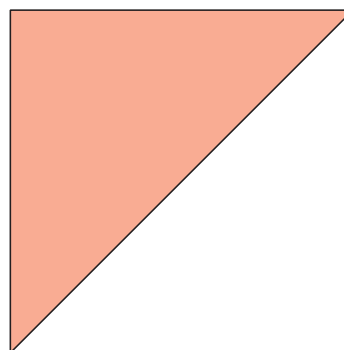
Warm-up: Which One Doesn't Belong: Shape Attributes

Which one doesn't belong?

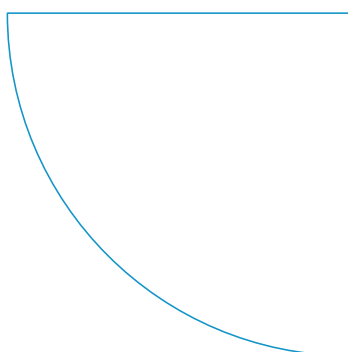
A



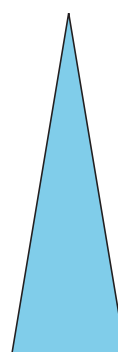
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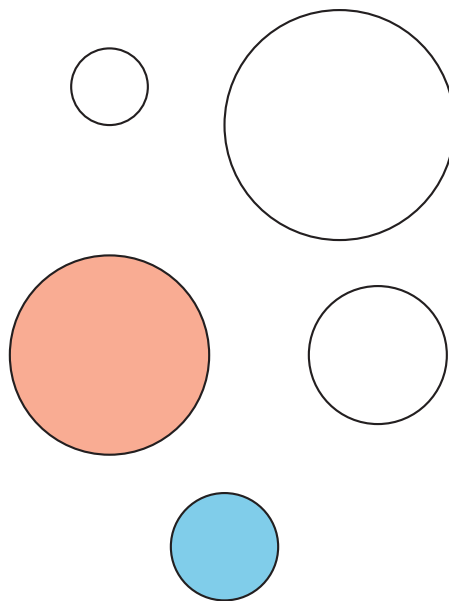
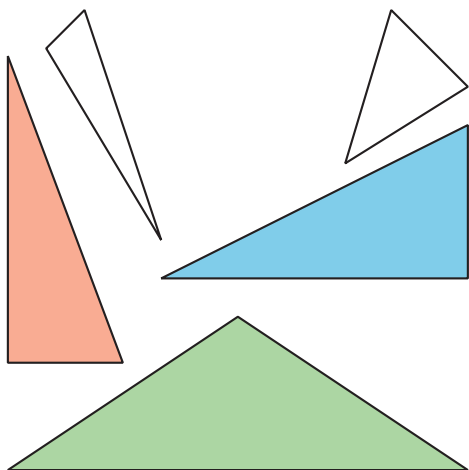
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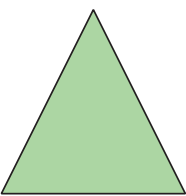


D



5.1: Color Circles and Triangles

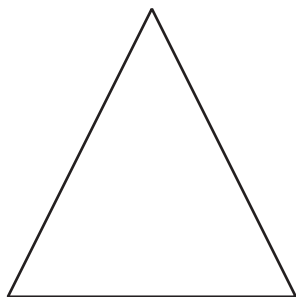




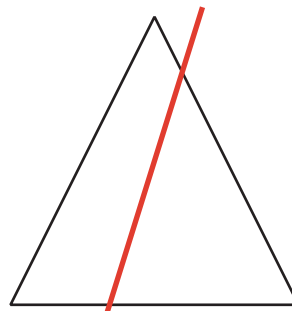
5.2: Triangle Sort

Let's put the shapes into 2 groups.

Triangle



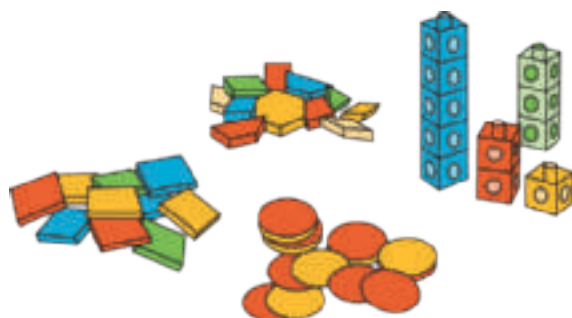
Not a Triangle



5.3: Introduce Counting Collections, Up To 20

Choose a center.

Counting Collections



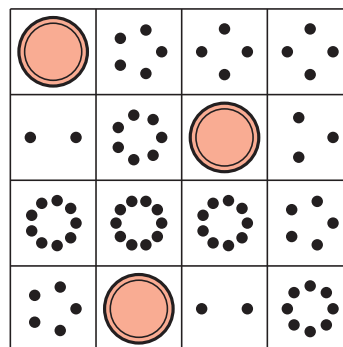
Which One



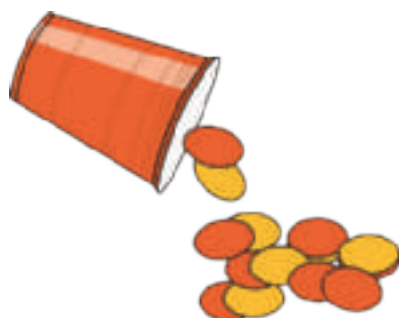
Picture Books



Bingo



Shake and Spill



Lesson 6: Rectangles and Squares

- Let's learn the names of some more shapes.

Warm-up: What Do You Know About Triangles?

What do you know about triangles?

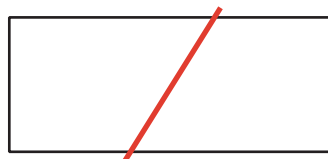
6.1: Sort Rectangles

Let's put the shapes into 2 groups.

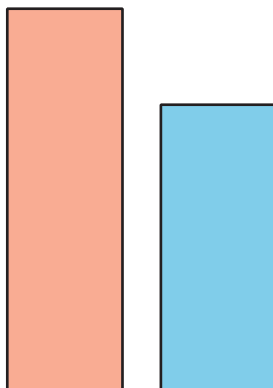
Rectangle



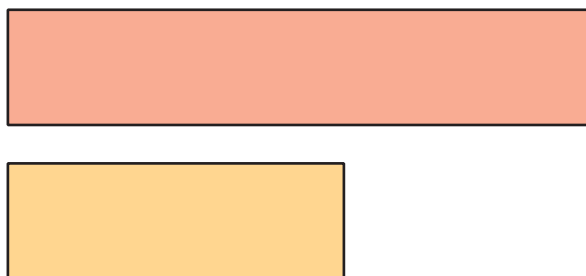
Not a Rectangle



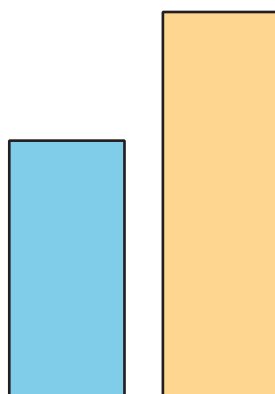
6.2: Compare Length of Rectangles



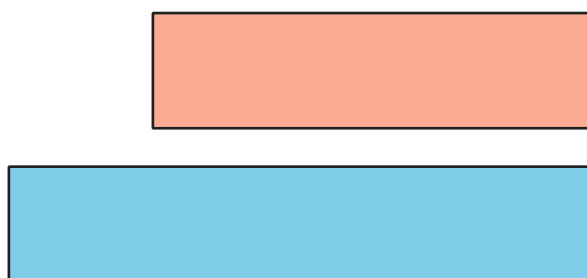
1.



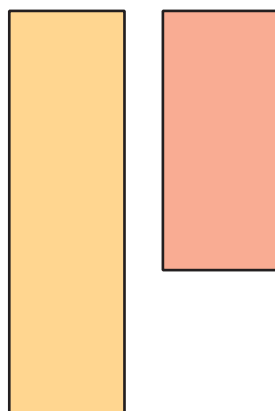
2.



3.



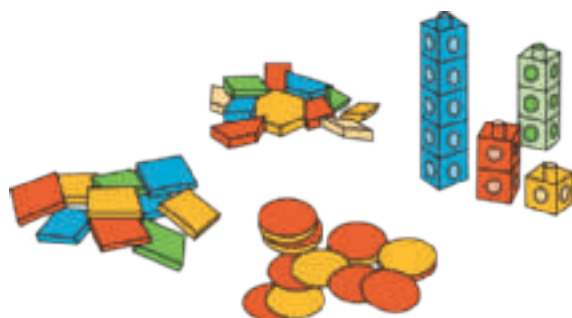
4.



6.3: Centers: Choice Time

Choose a center.

Counting Collections



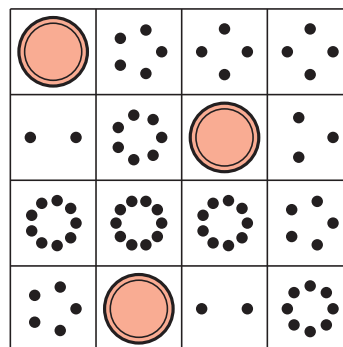
Which One



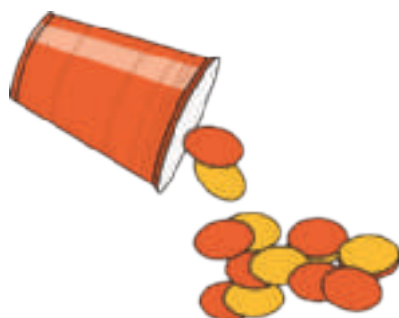
Picture Books



Bingo



Shake and Spill



Lesson 7: Build with Straws

- Let's make shapes with straws.

7.1: Compare Length of Straws

Let's put the straws into 2 groups.

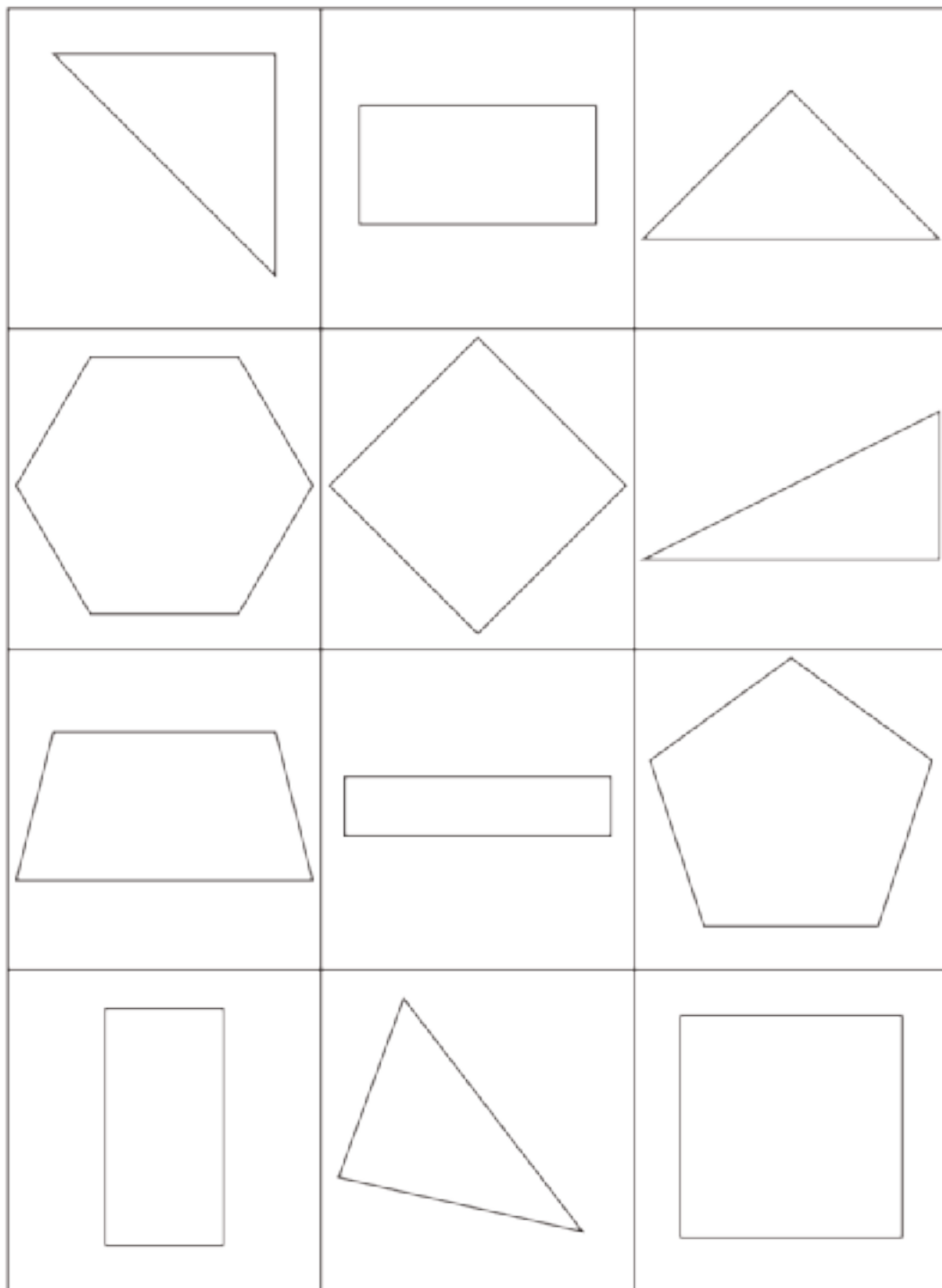
shorter than



longer than

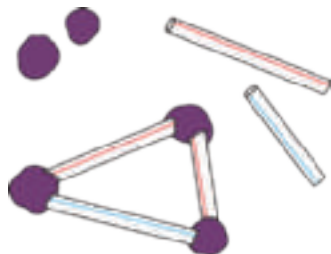


7.3: Introduce Build Shapes, Match the Flat Shape

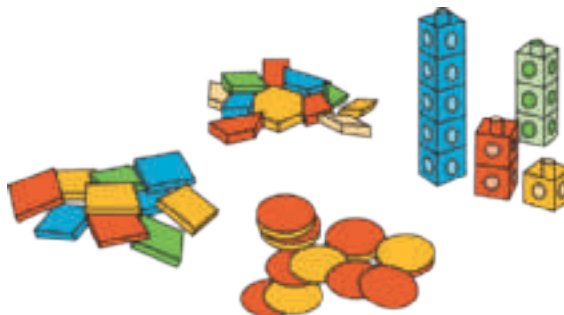


Choose a center.

Build Shapes



Counting Collections



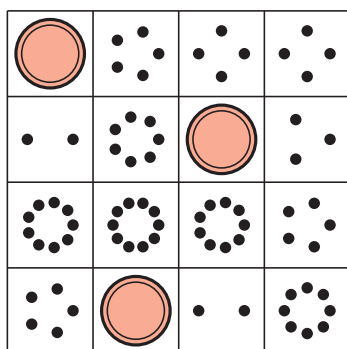
Which One



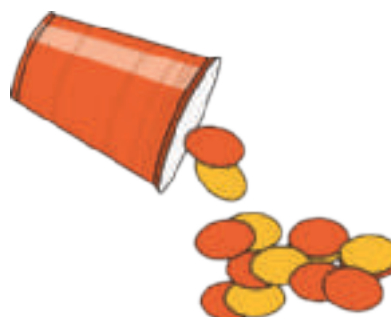
Picture Books



Bingo



Shake and Spill



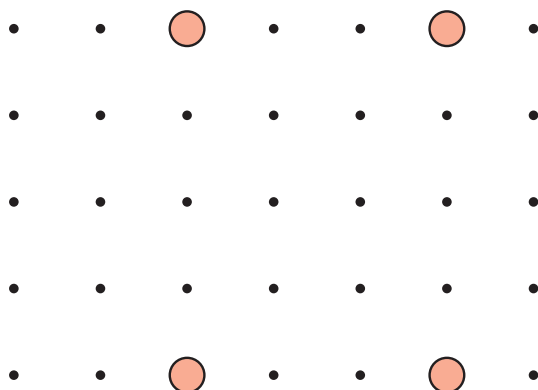
Lesson 8: Draw Shapes

- Let's draw shapes.

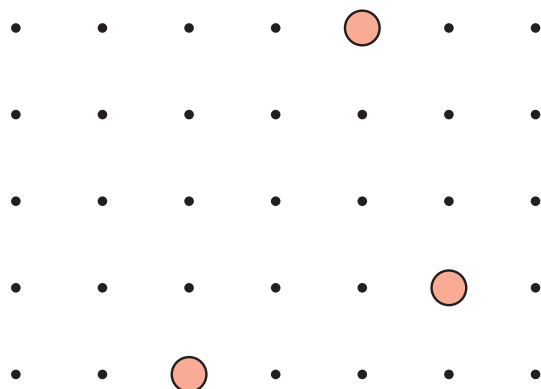
Warm-up: What Do You Know About Rectangles?

What do you know about rectangles?

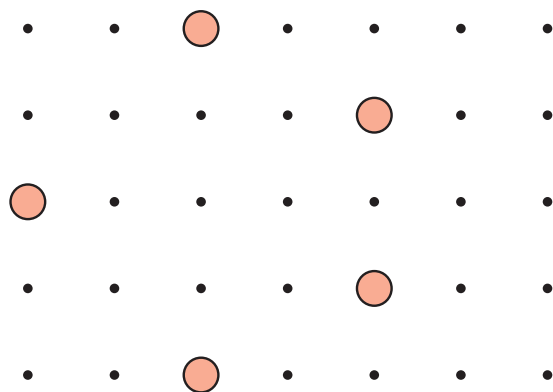
8.1: Connect the Dots



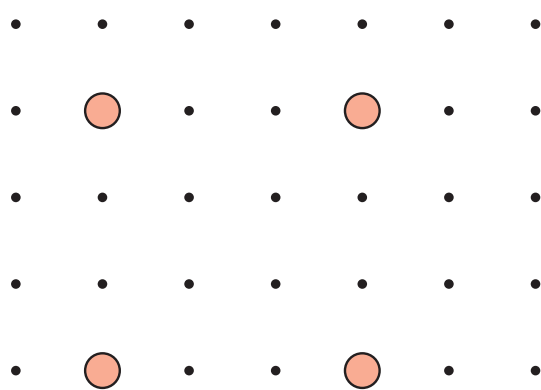
1.



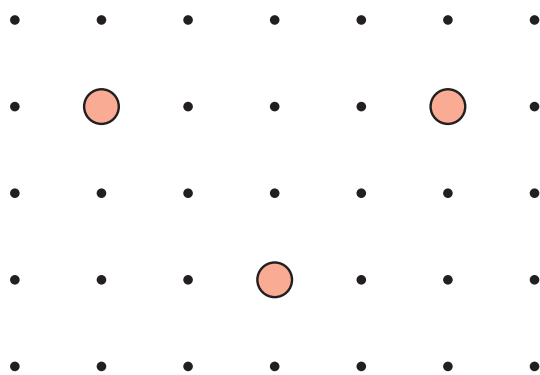
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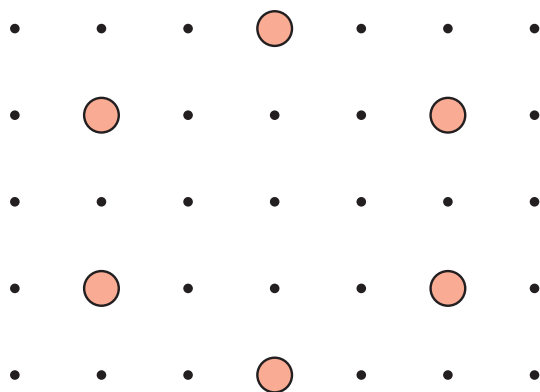
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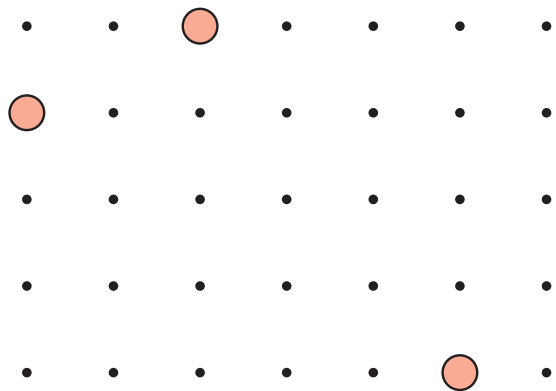
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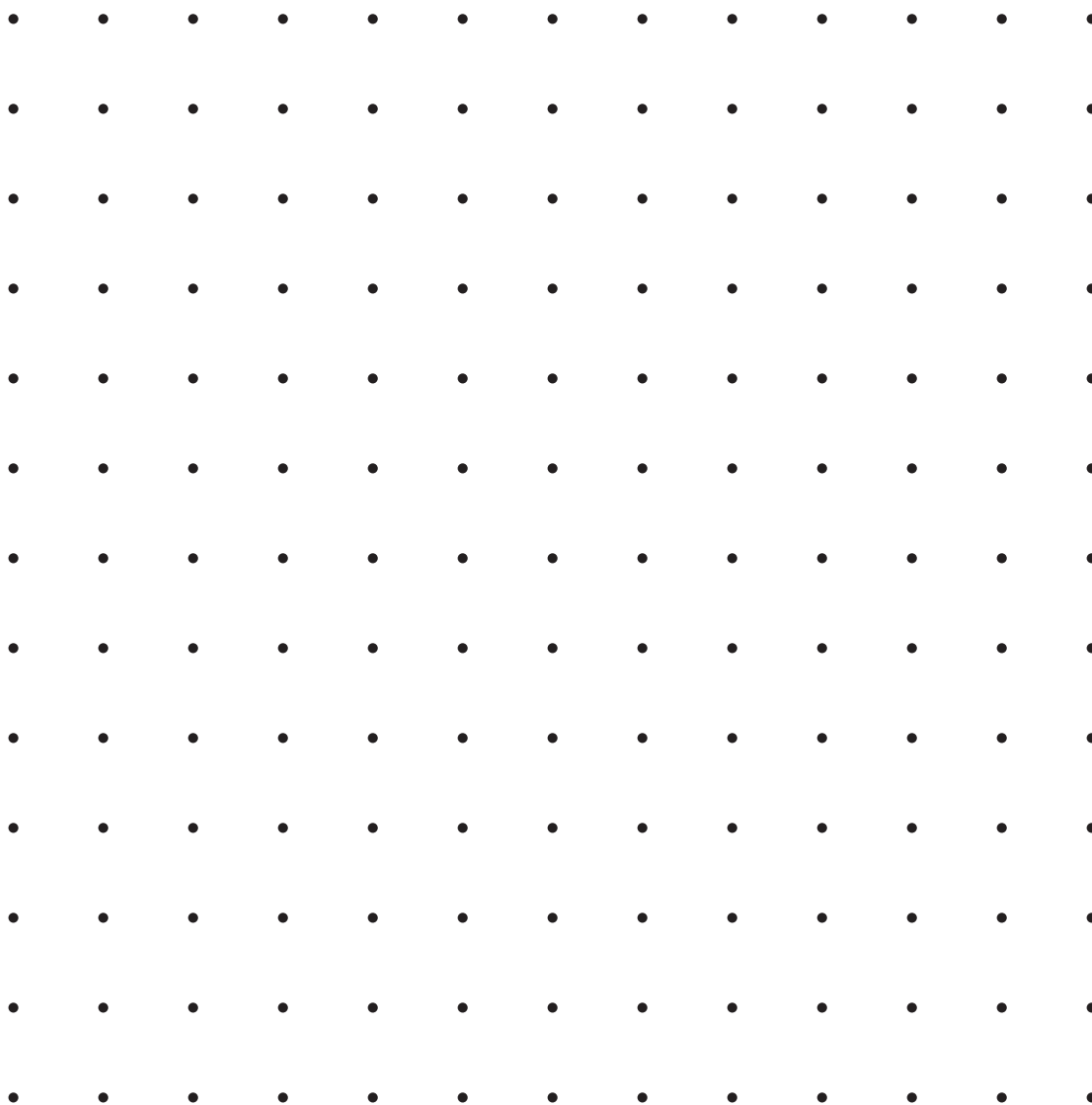
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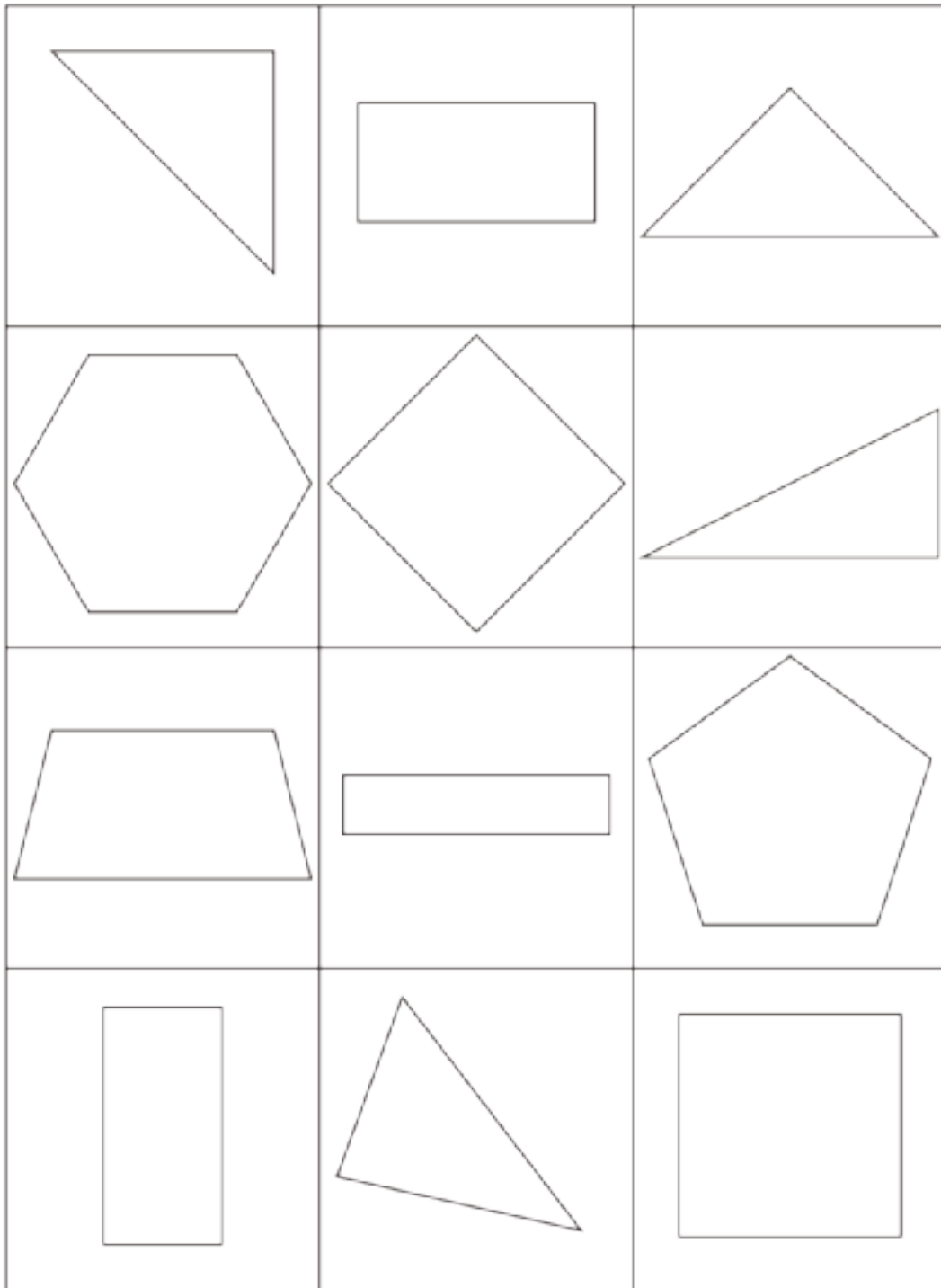


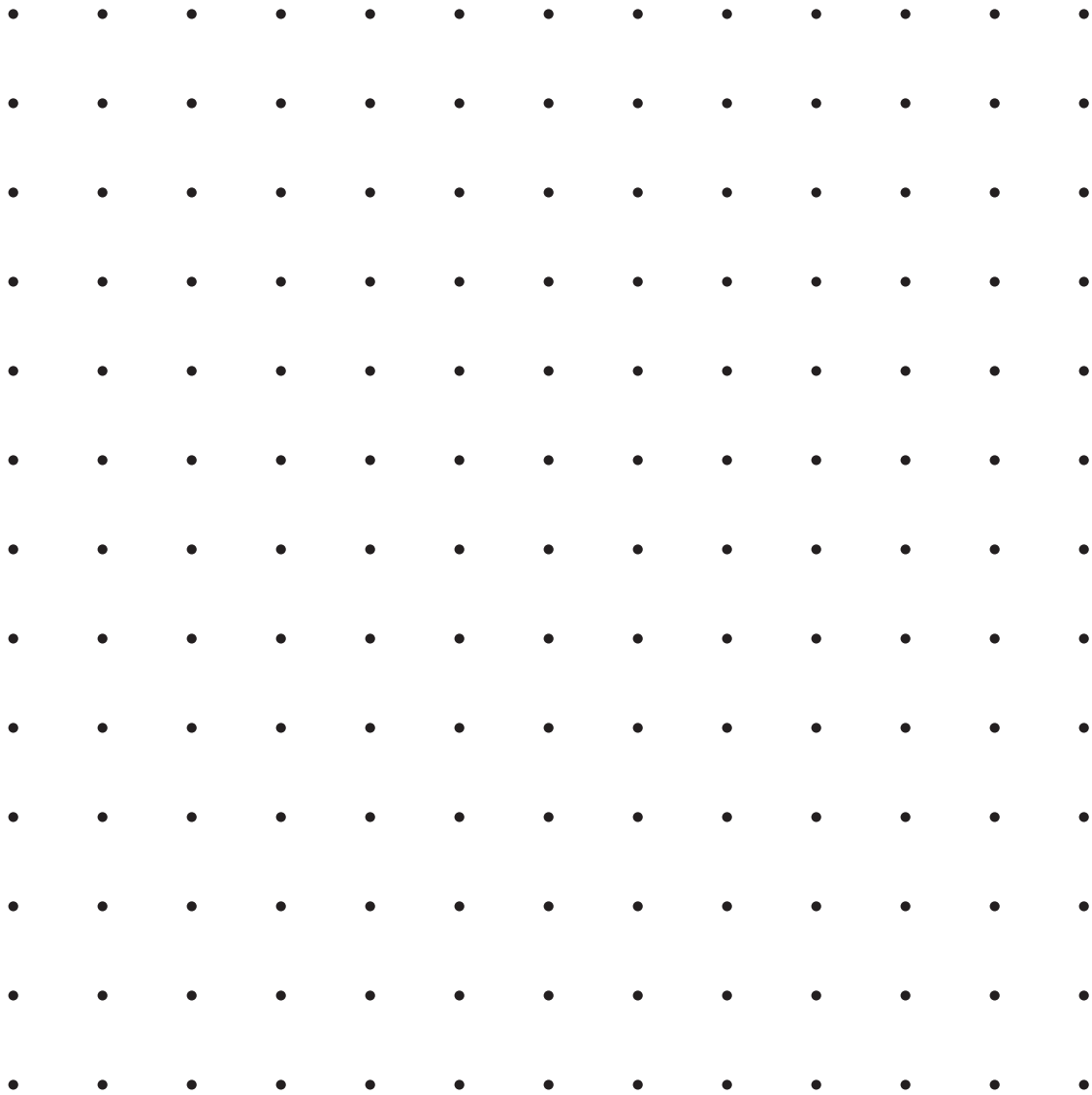
Synthesis:

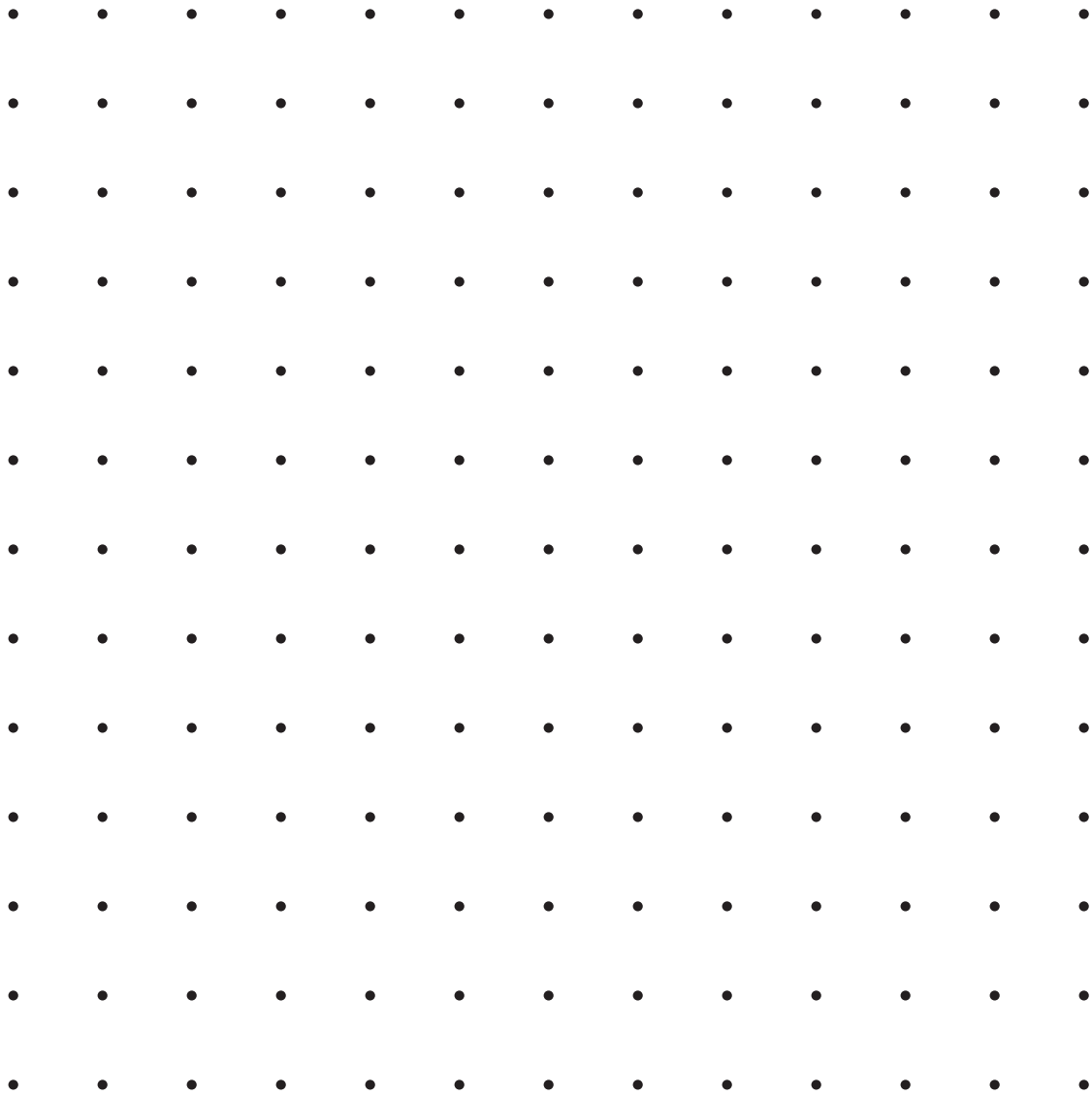


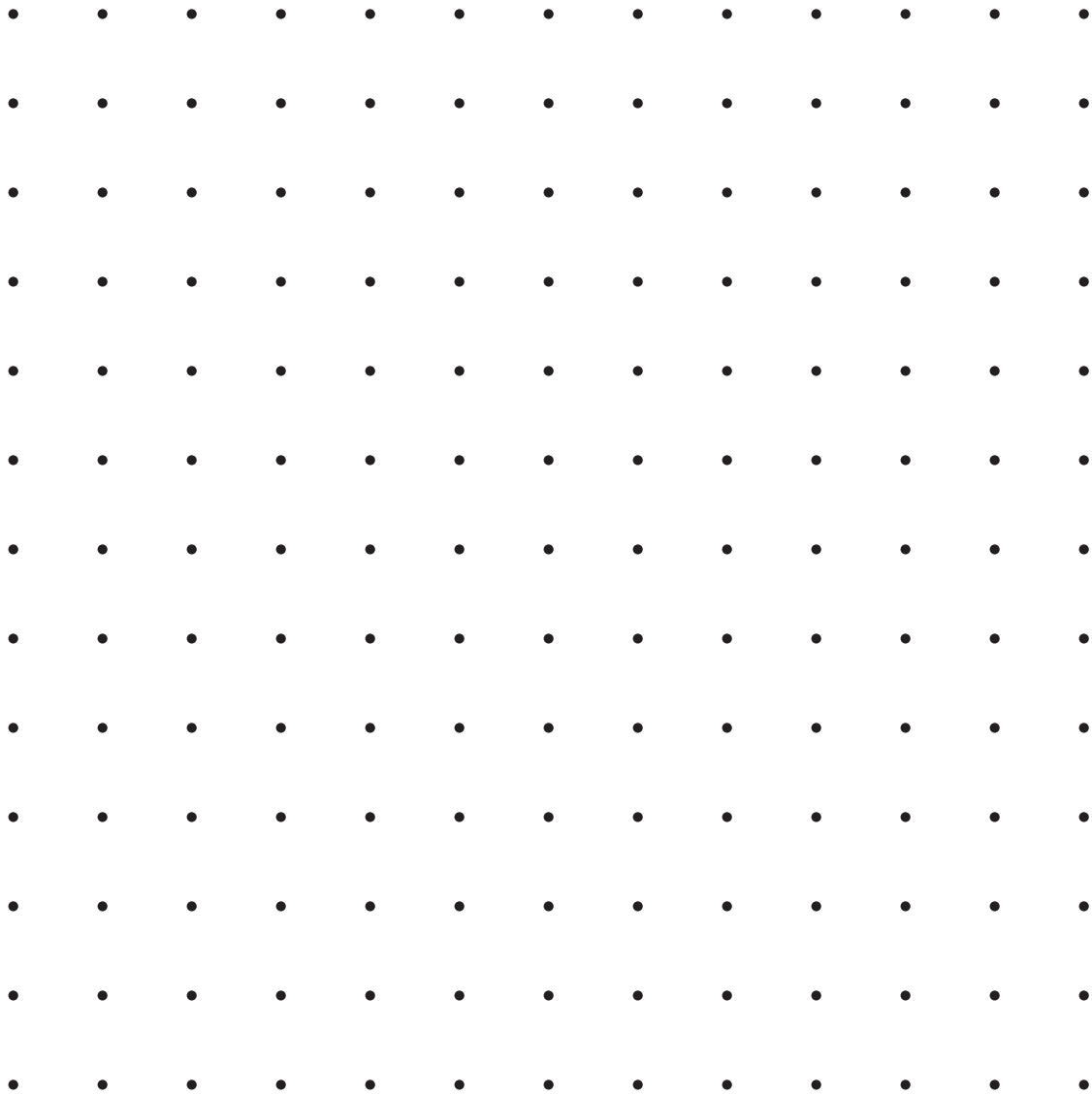
8.2: Describe and Draw Shapes



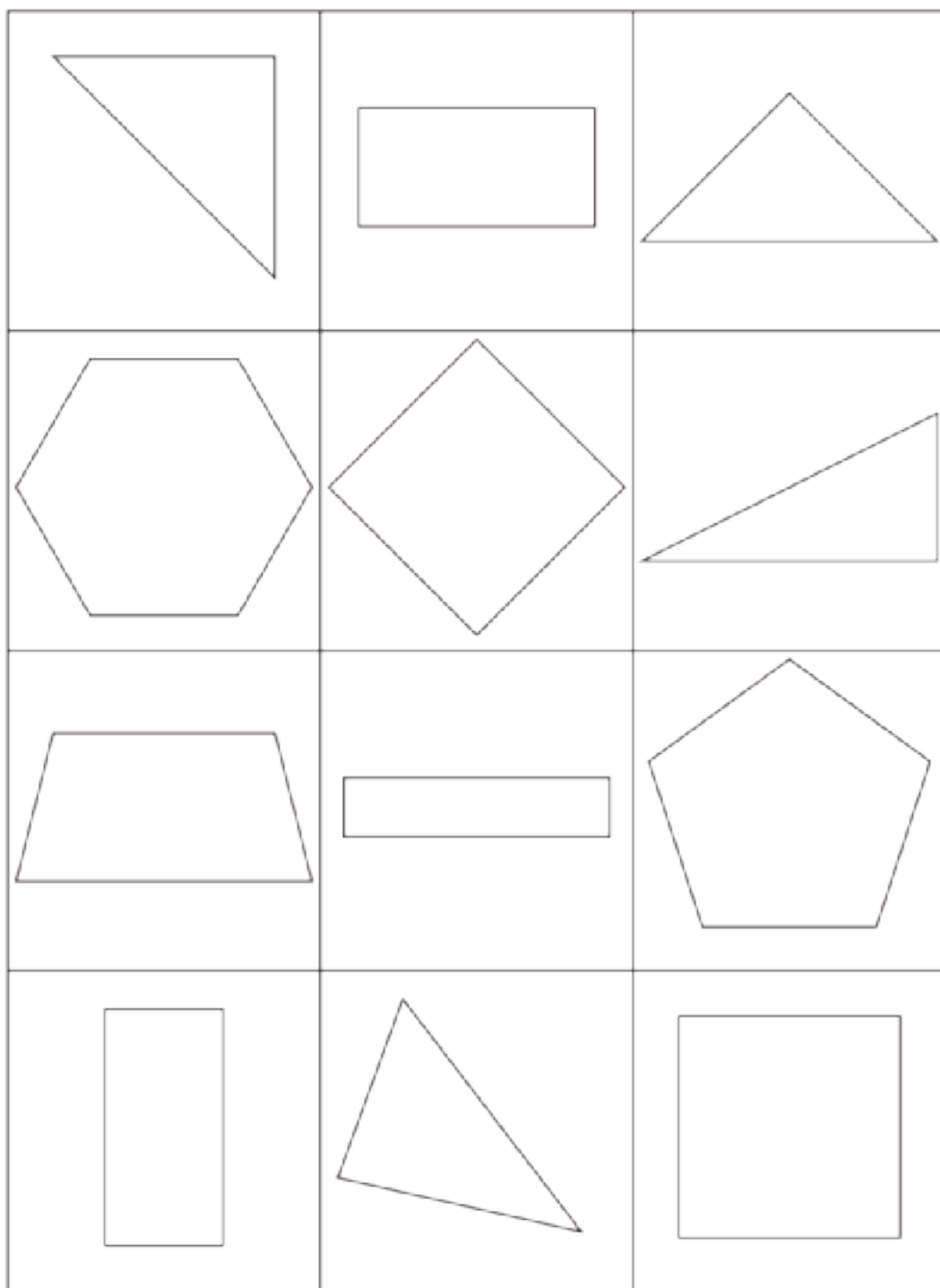






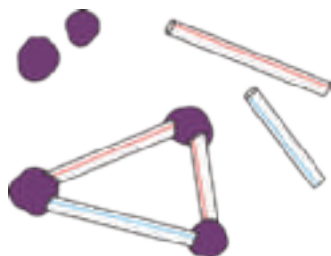


8.3: Introduce Build Shapes, Describe the Flat Shape

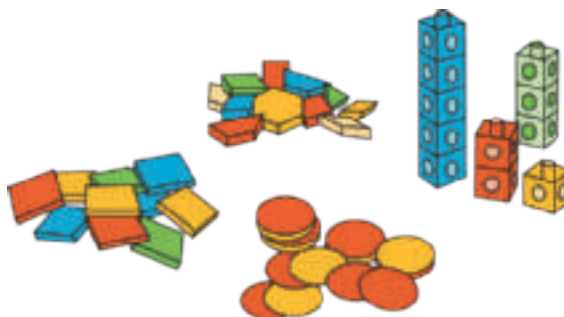


Choose a center.

Build Shapes



Counting Collections



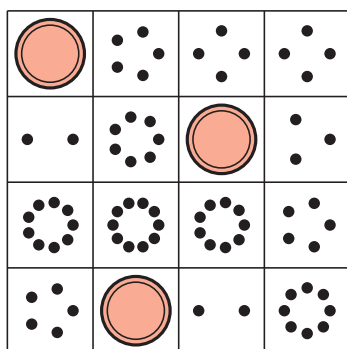
Which One



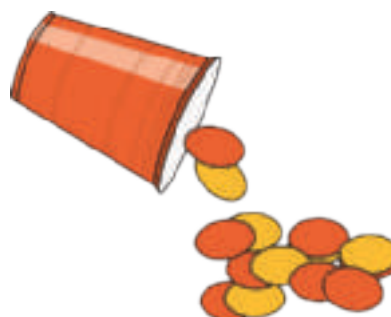
Picture Books



Bingo



Shake and Spill



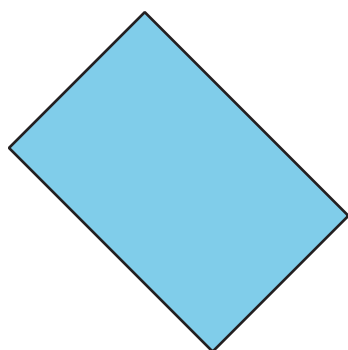
Lesson 9: Shapes Are Everywhere

- Let's find shapes in our world.

Warm-up: Which One Doesn't Belong: Rectangles, Squares, and Triangles

Which one doesn't belong?

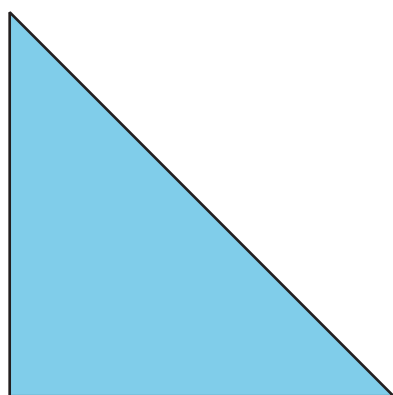
A



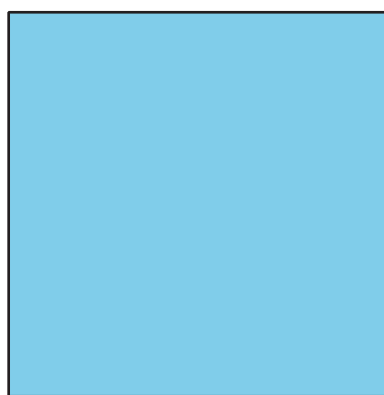
B



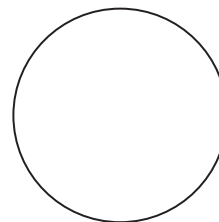
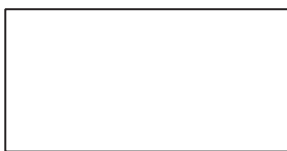
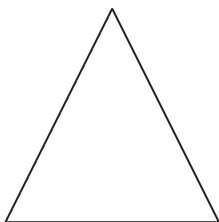
C



D



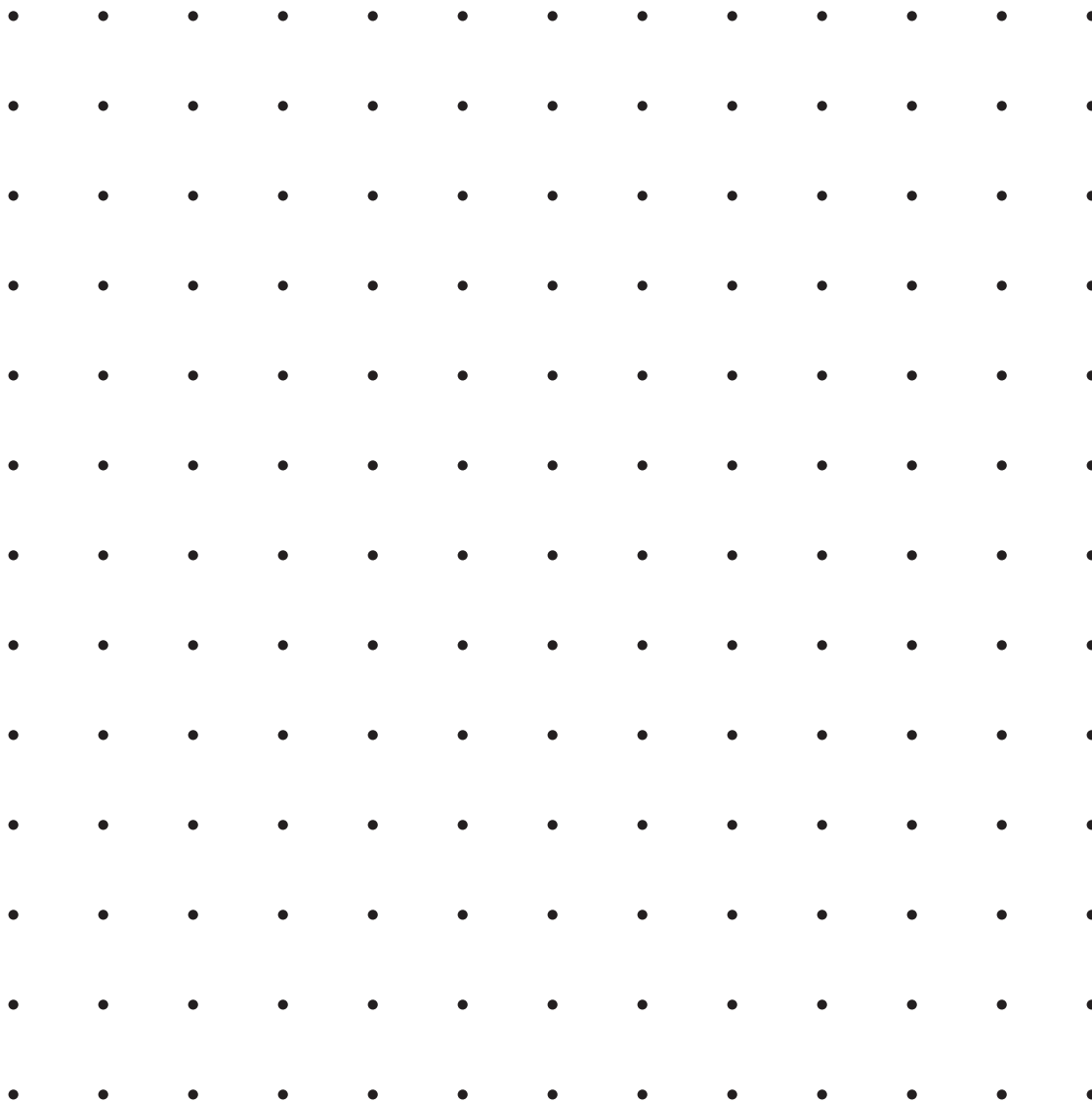
9.1: School Shape Walk



Synthesis:



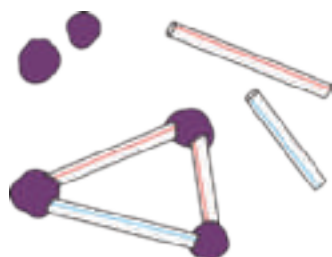
9.2: Create the Shape



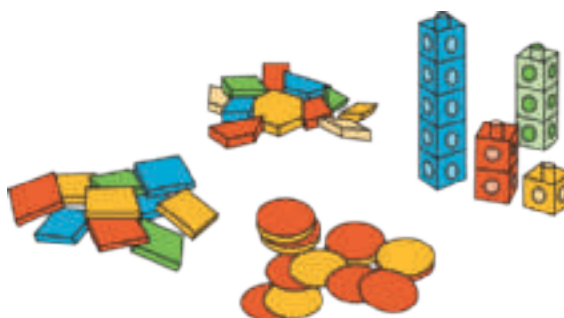
9.3: Centers: Choice Time

Choose a center.

Build Shapes



Counting Collections



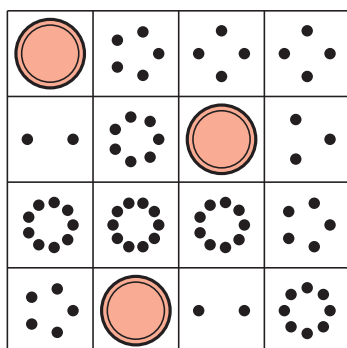
Which One



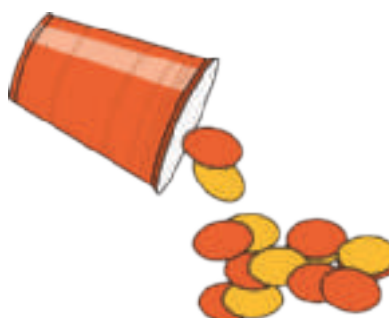
Picture Books



Bingo



Shake and Spill

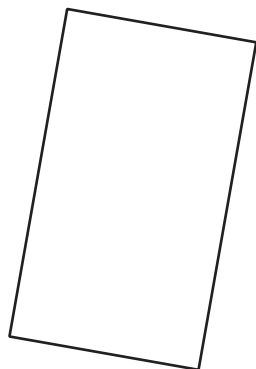


Section Summary

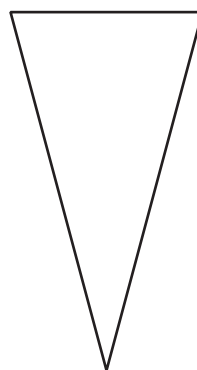
Section Summary

In this section, we noticed shapes in the world around us.

We described and compared shapes.



This shape looks like a door that is crooked.
It has 4 corners.



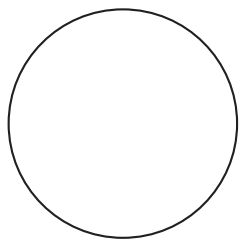
This shape has 2 long sides and 1 shorter side.

The shapes are alike because they have straight sides.

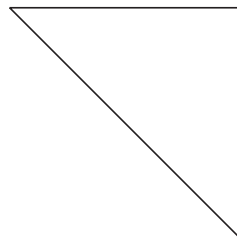
The shapes are different because one has 4 sides and one has 3 sides.

We learned the names of these shapes:

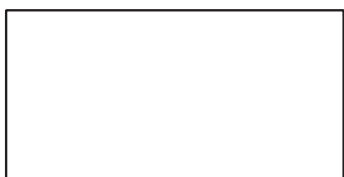
circle



triangle



rectangle



square



Lesson 10: Put Together Pattern Blocks

- Let's put together pattern blocks.

Warm-up: Notice and Wonder: Quilts

What do you notice?

What do you wonder?

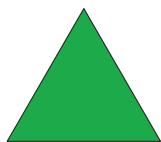


Synthesis:



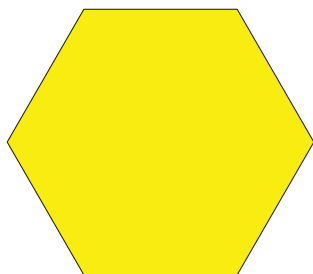
10.1: Introduce Pattern Blocks, Count Out and Build

3



green triangles

6



yellow hexagons

8



blue rhombuses

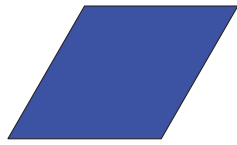
4



orange squares

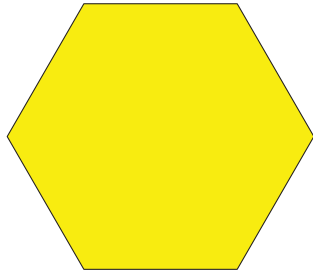
I used more _____ than _____.

5



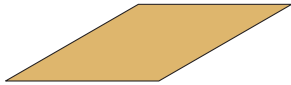
blue rhombuses

2



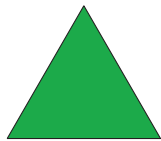
yellow hexagons

4



tan rhombuses

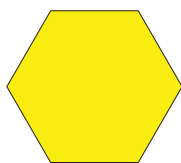
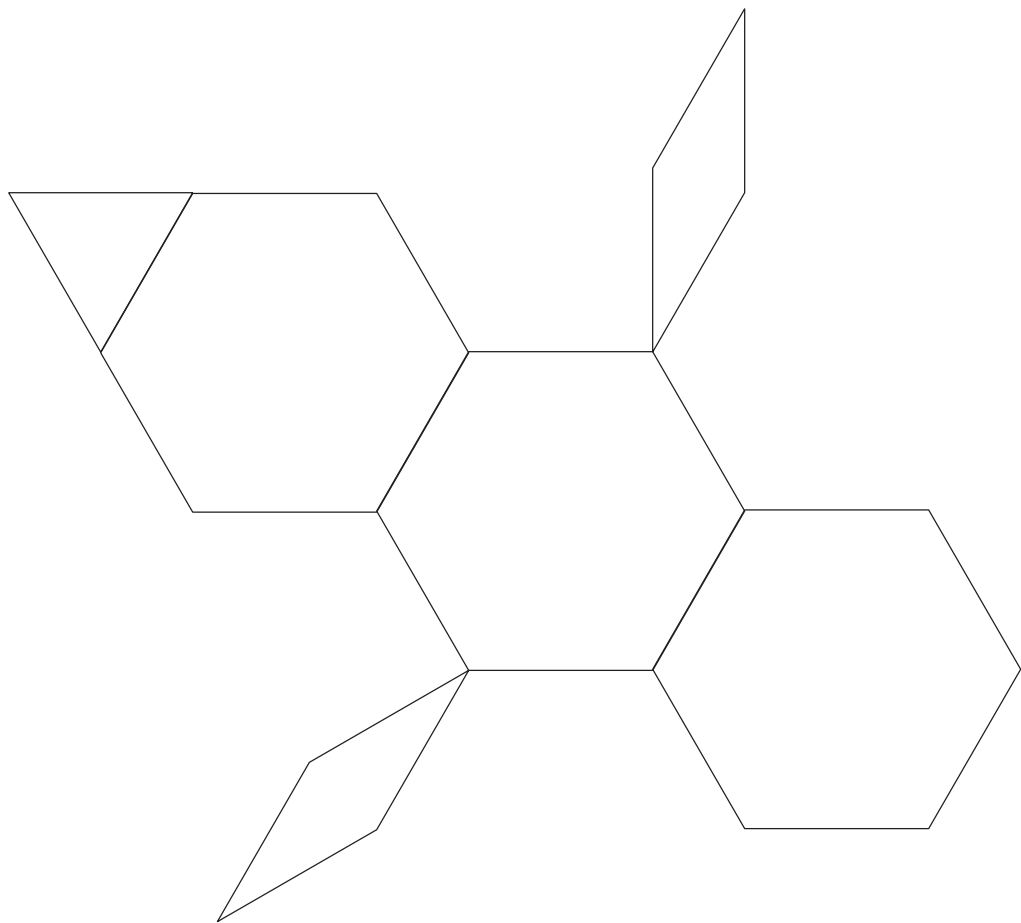
7



green triangles

I used more _____ than _____.

10.2: Pattern Block Puzzles

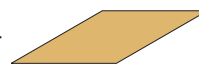












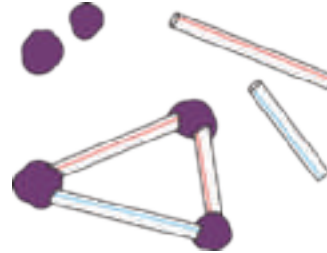
10.3: Centers: Choice Time

Choose a center.

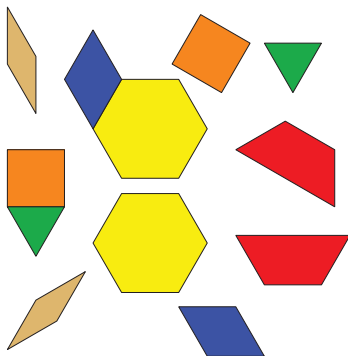
Geoblocks



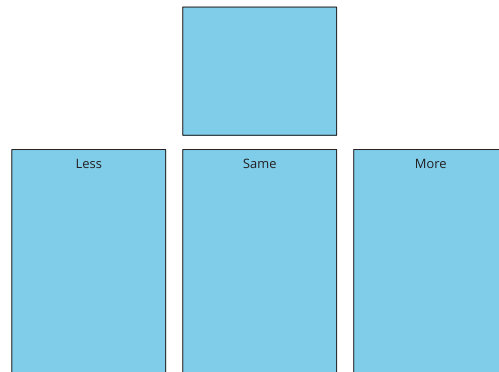
Build Shapes



Pattern Blocks



Less, Same, More



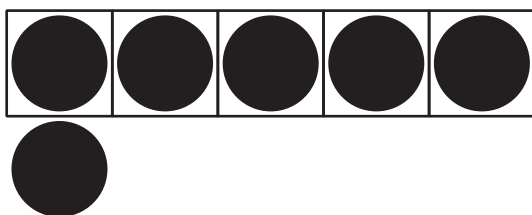
Lesson 11: Same Shapes

- Let's figure out which shapes are the same.

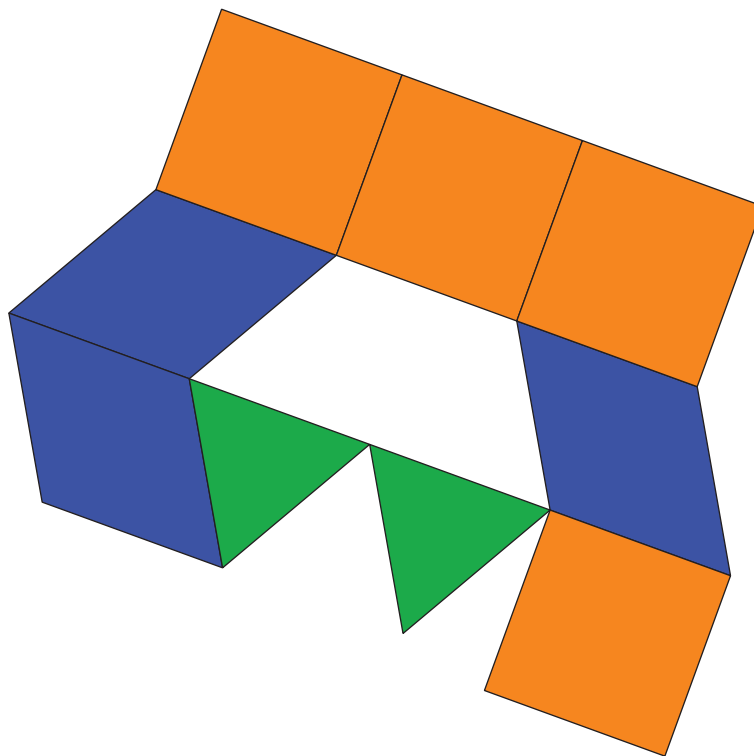
Warm-up: How Many Do You See: 1 More and 1 Less on 5-frames

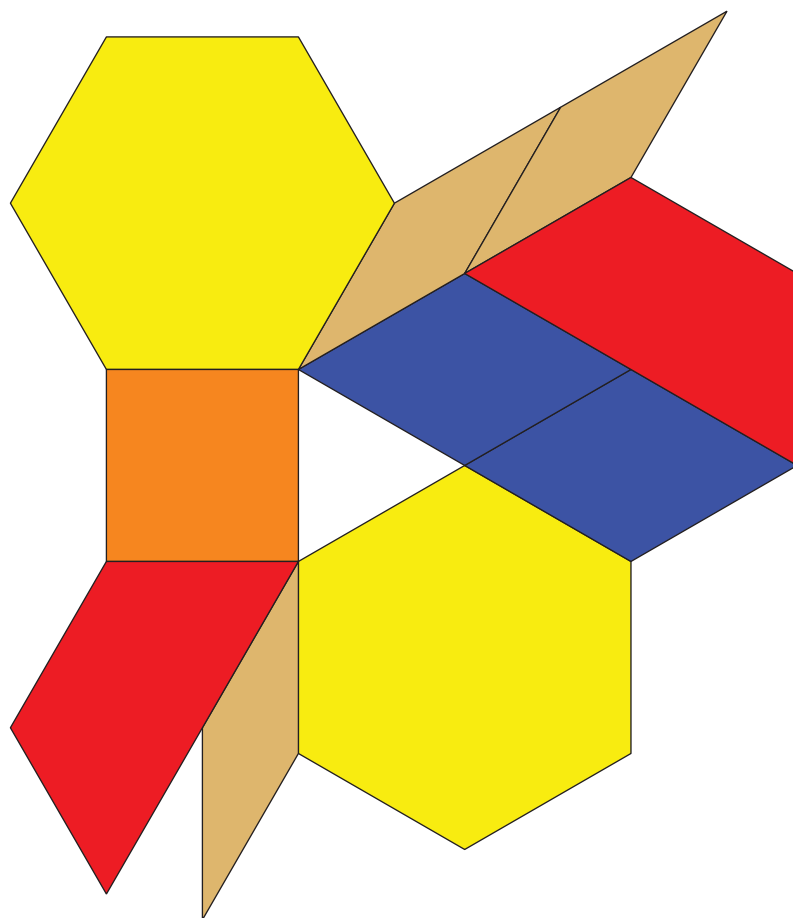
How many do you see?

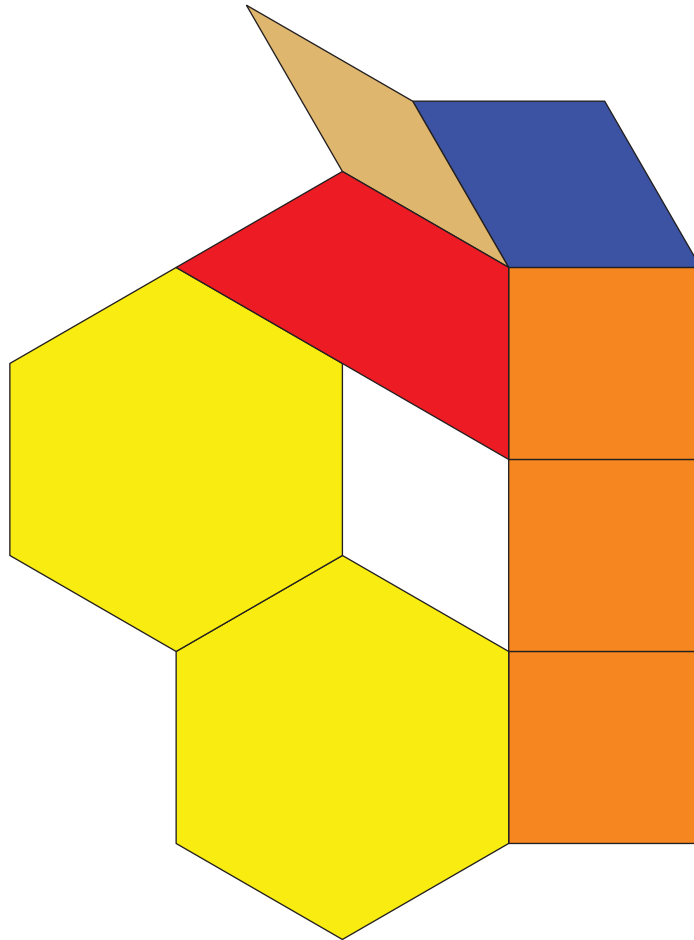
How do you see them?

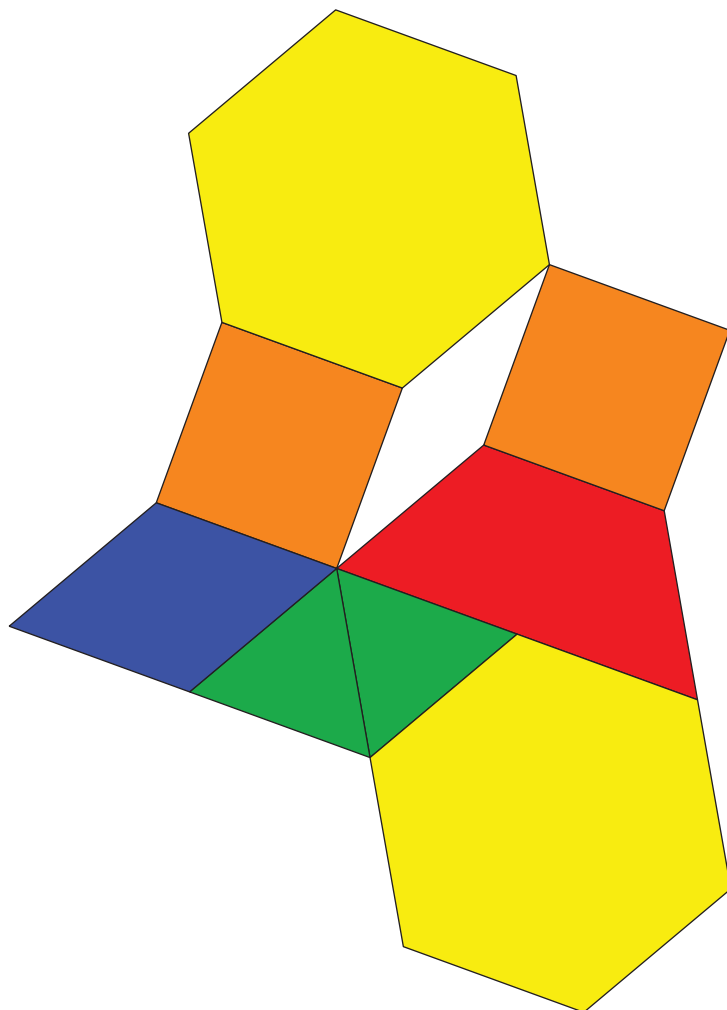


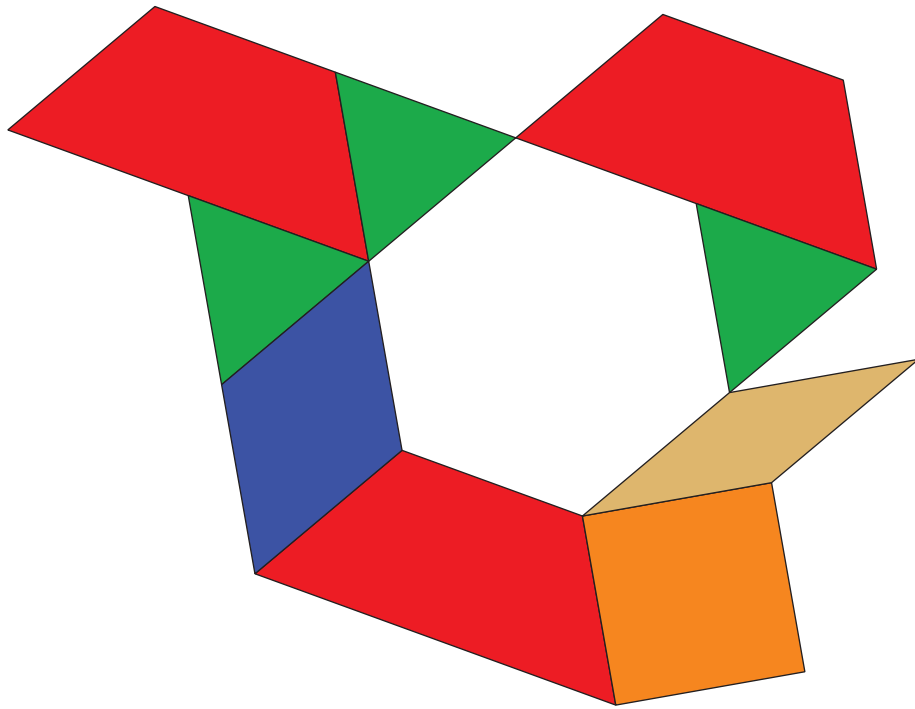
11.1: Missing Shapes

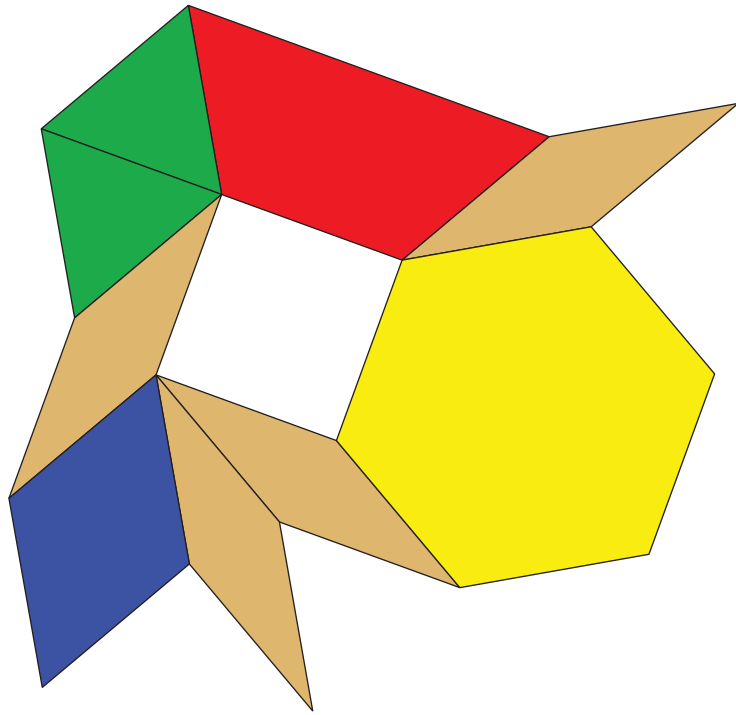




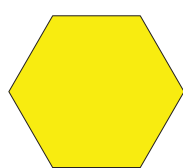
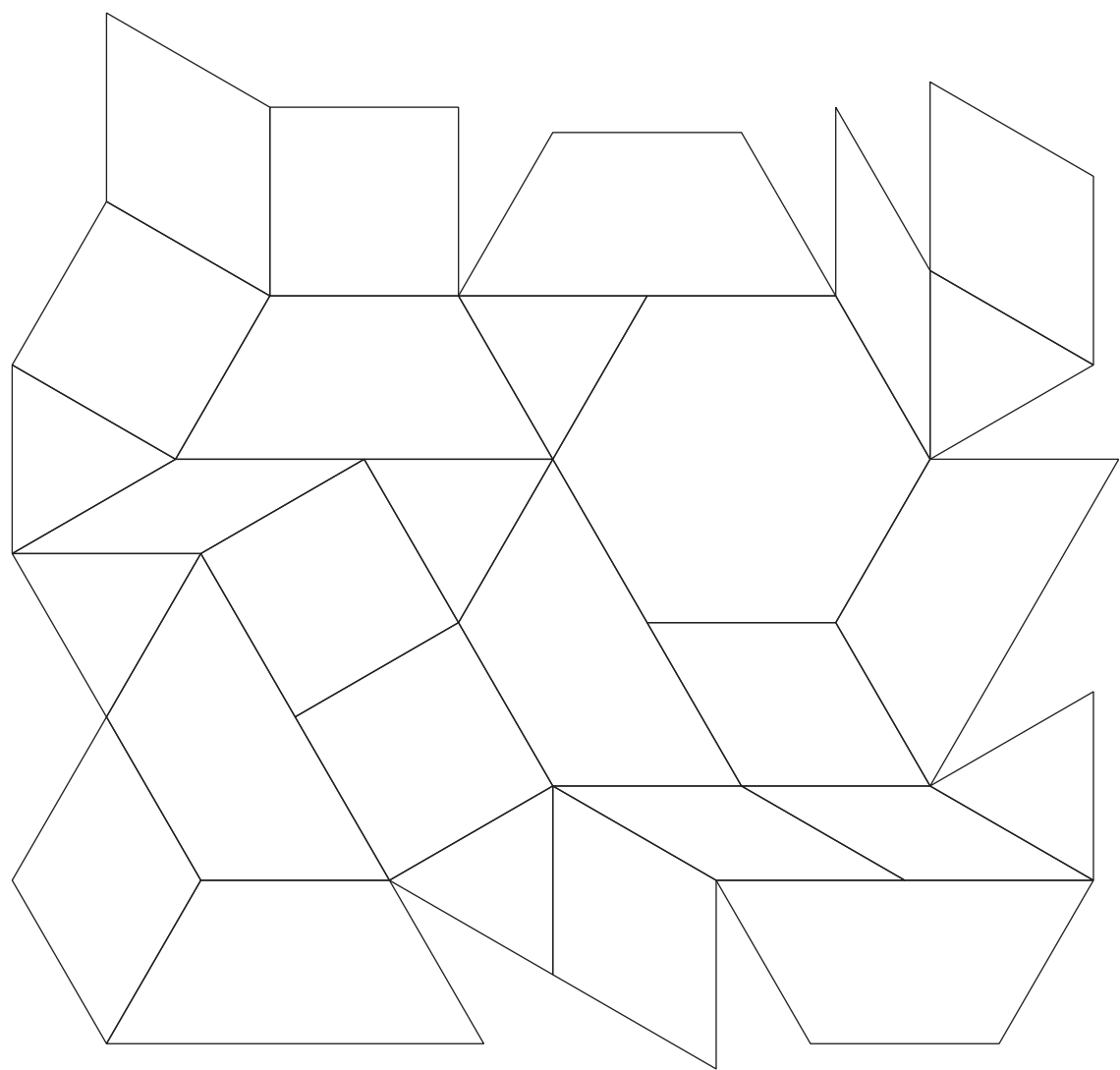








11.2: Find the Shape













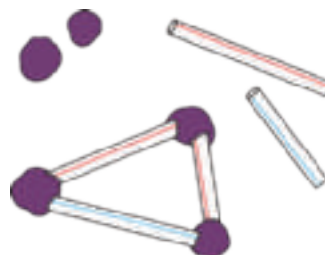
11.3: Centers: Choice Time

Choose a center.

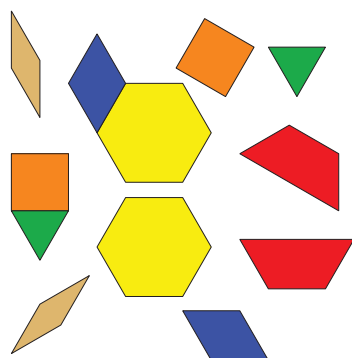
Geoblocks



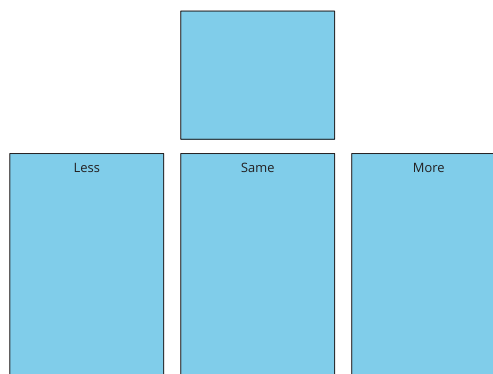
Build Shapes



Pattern Blocks



Less, Same, More



Lesson 12: More than One Way to Make a Shape

- Let's figure out how many different ways we can make a shape.

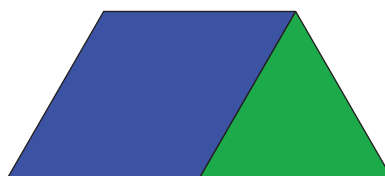
Warm-up: Which One Doesn't Belong: Pattern Block Trapezoids

Which one doesn't belong?

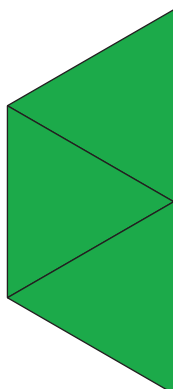
A



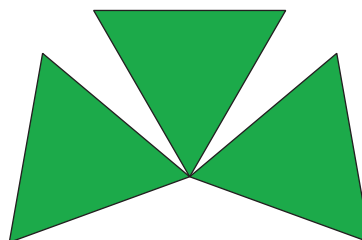
B



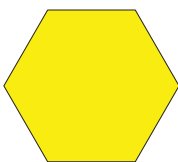
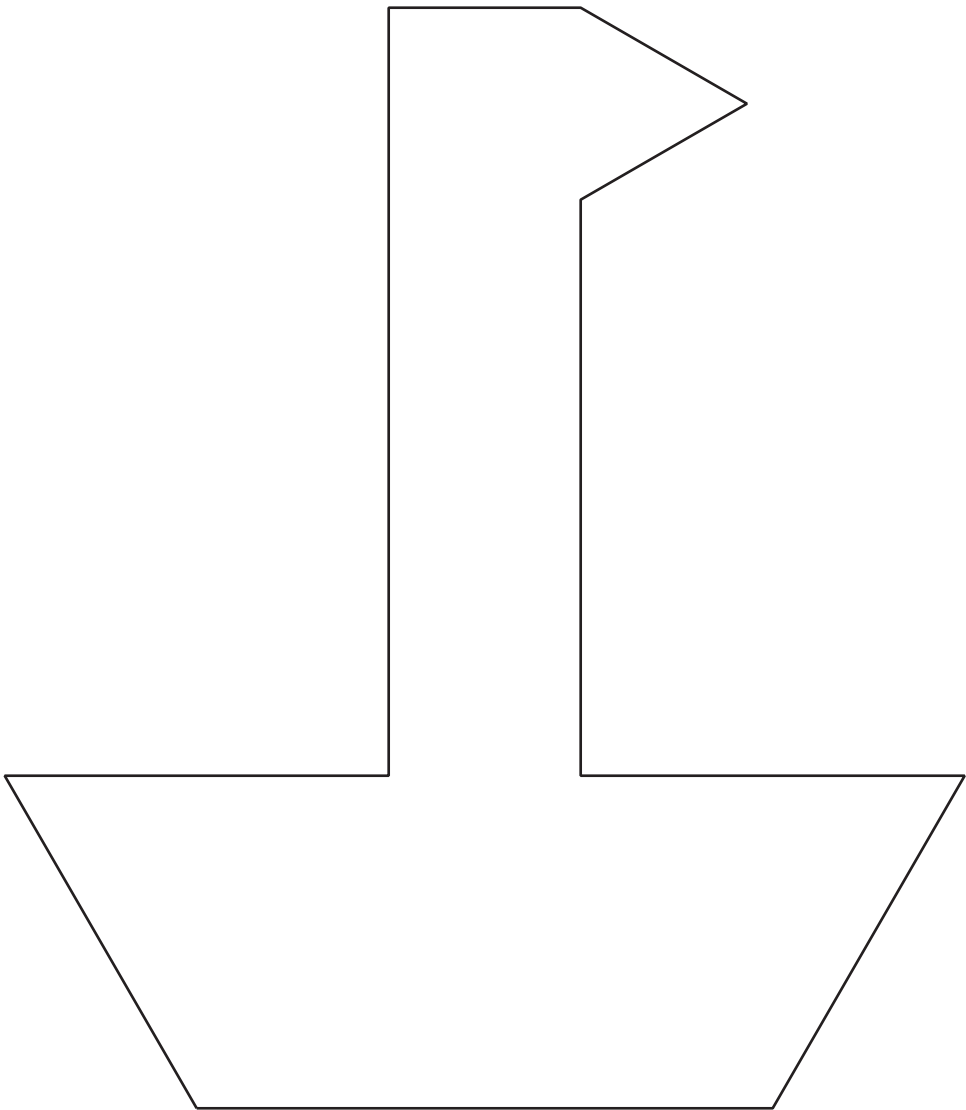
C



D



12.1: Introduce Pattern Blocks, Puzzle Challenge





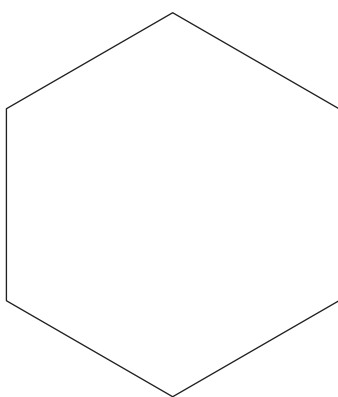
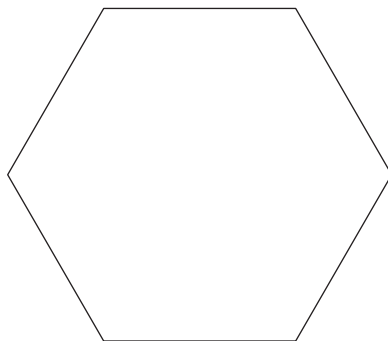


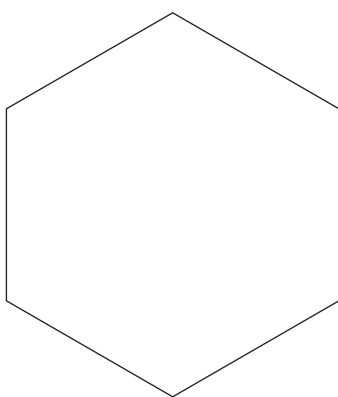
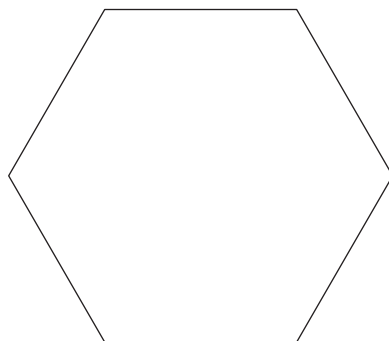


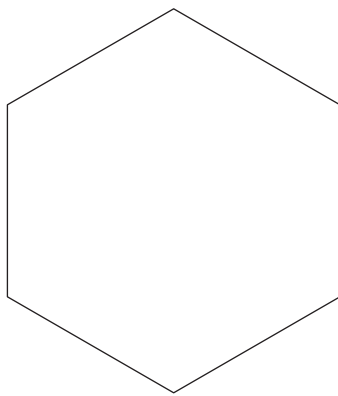
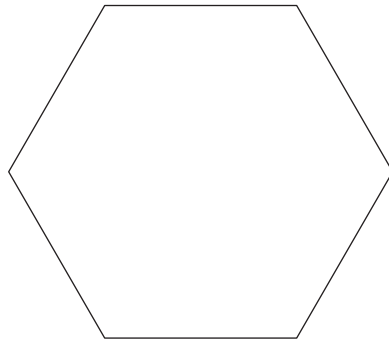




12.2: Many Ways to Make a Hexagon







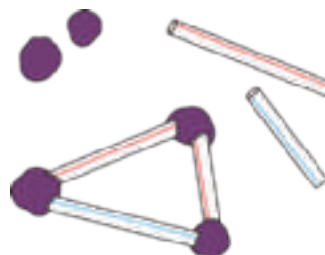
12.3: Centers: Choice Time

Choose a center.

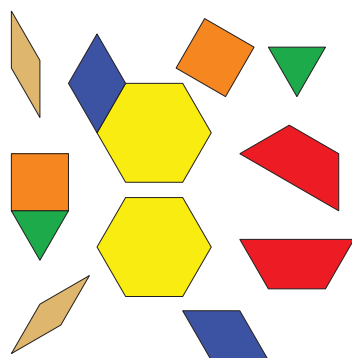
Geoblocks



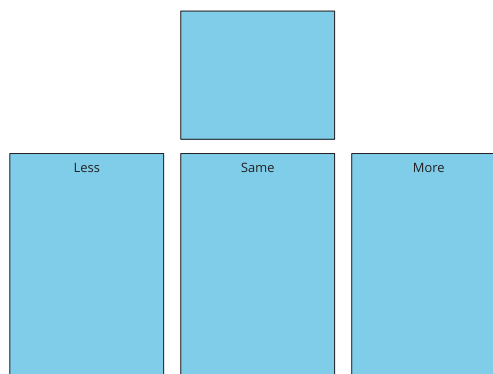
Build Shapes



Pattern Blocks



Less, Same, More



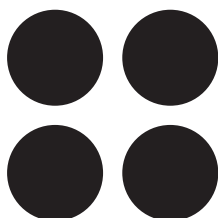
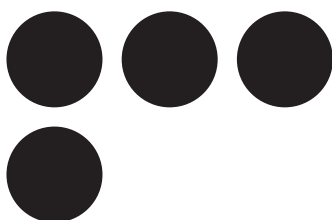
Lesson 13: Describe and Match Shapes

- Let's build shapes that match.

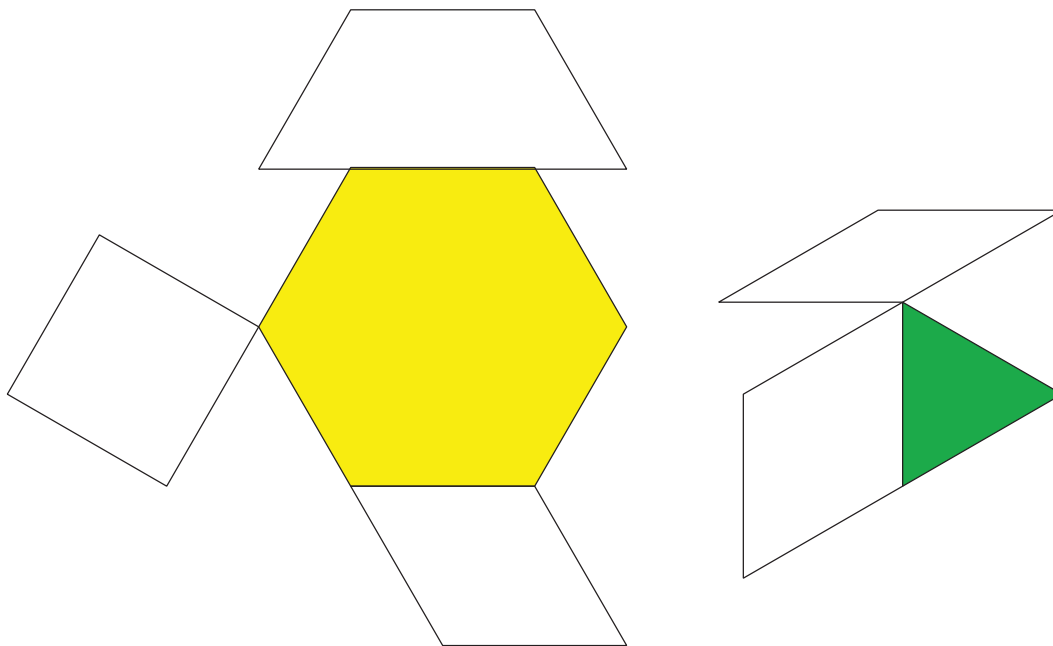
Warm-up: How Many Do You See: Add On and Rearrange

How many do you see?

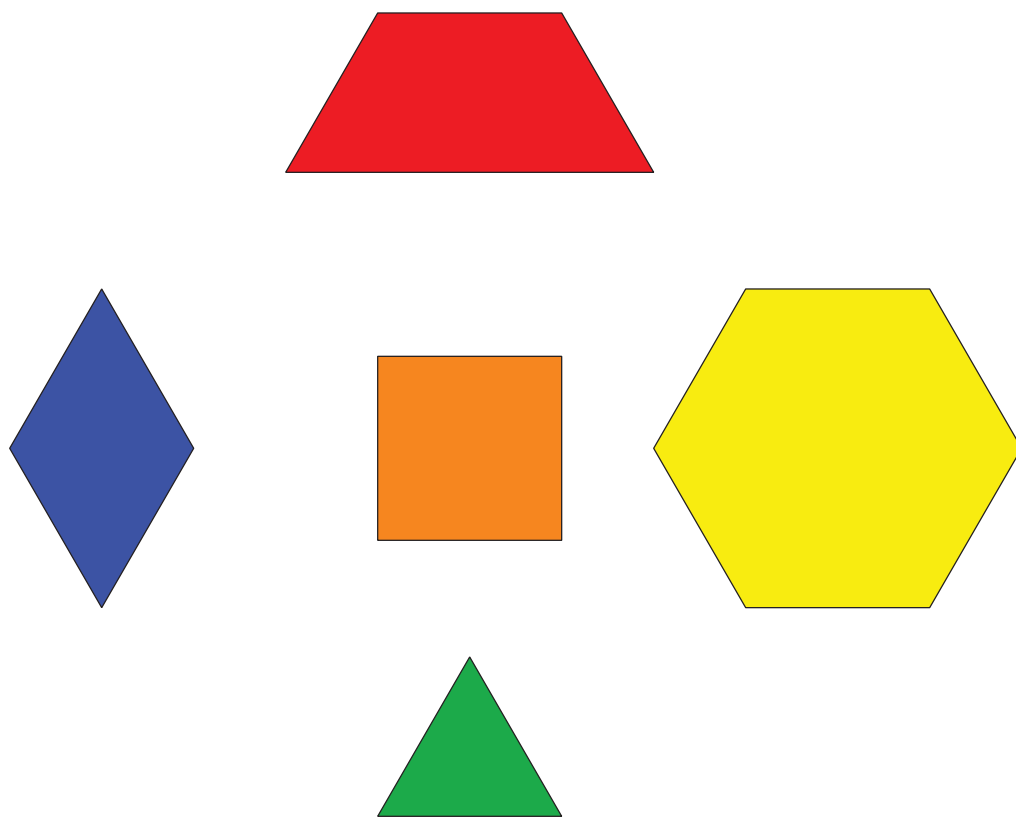
How do you see them?



13.1: Where are the Pattern Blocks?



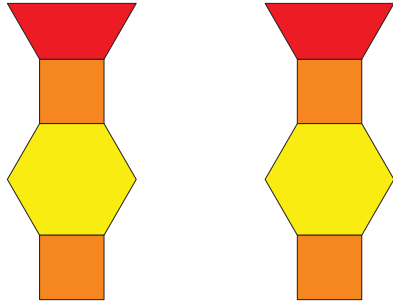
Synthesis:



13.3: Centers: Choice Time

Choose a center.

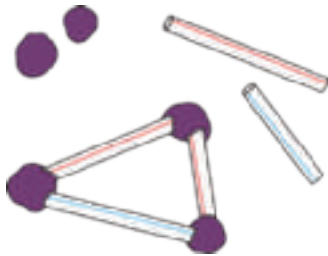
Match Mine



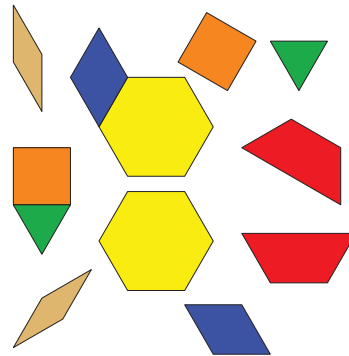
Geoblocks



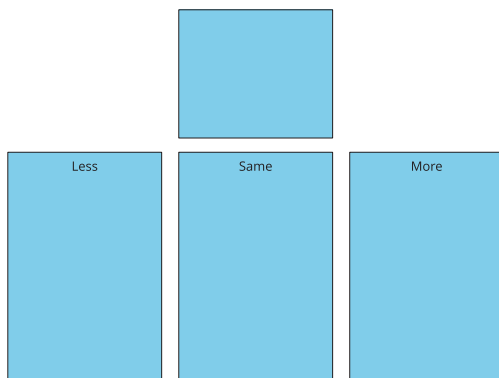
Build Shapes



Pattern Blocks



Less, Same, More



Lesson 14: Shapes in Art

- Let's find shapes in art and use shapes to make our own art.

Warm-up: Notice and Wonder: Shapes in Art

What do you notice?

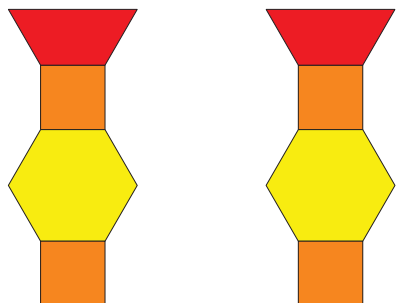
What do you wonder?



14.3: Centers: Choice Time

Choose a center.

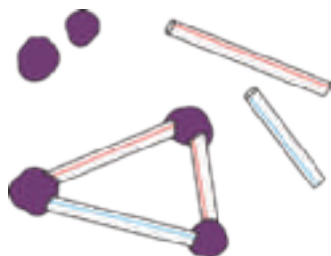
Match Mine



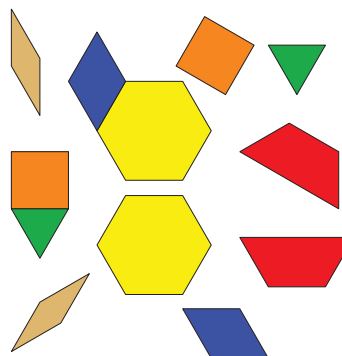
Geoblocks



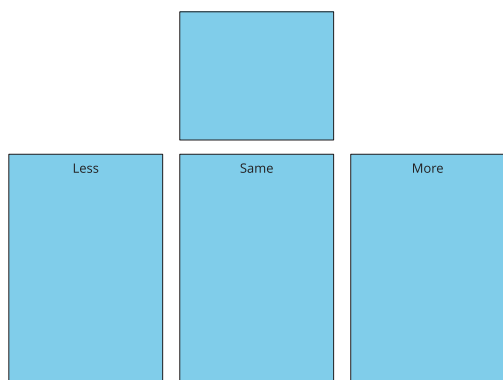
Build Shapes



Pattern Blocks



Less, Same, More

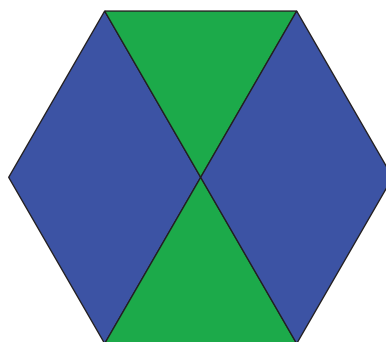


Section Summary

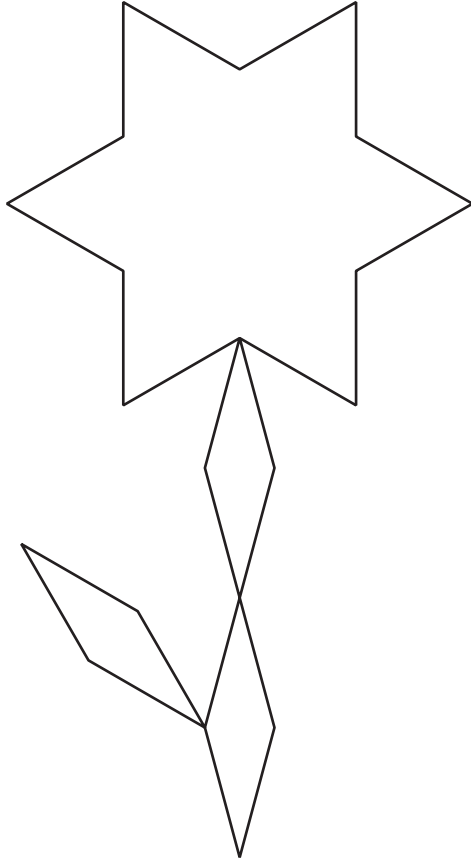
Section Summary

In this section we put shapes together to make larger shapes.

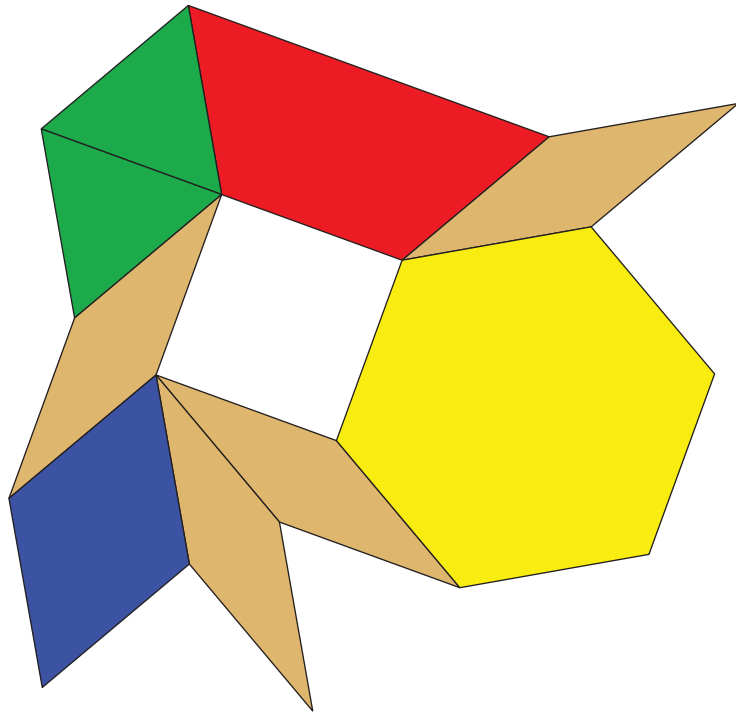
Sometimes we used shapes to make other shapes.



Sometimes we used shapes to make things in the world.



We learned that the same shape can look different when it is moved around.



The shape that is missing is the square but it looks different because it is turned.

We also used words like above, below, beside, and next to to describe where shapes are.

Lesson 15: Animal Shape Stamp Art

- Let's make animals out of shapes.

Warm-up: Notice and Wonder: Animals at the Watering Hole

What do you notice?

What do you wonder?



15.1: Animal Print Making

Use the shape stamps to create an animal.

Section A: Practice Problems

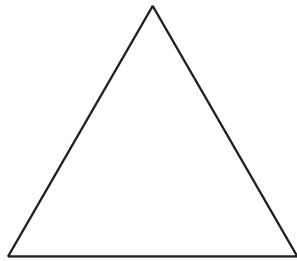
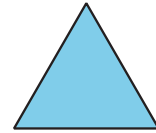
1. Describe some of the shapes you see in the picture.



(From Unit 3, Lesson 1.)

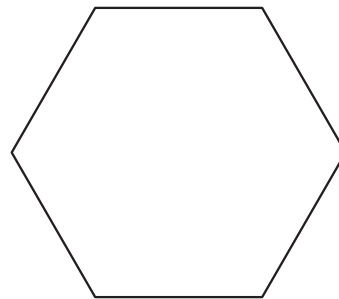
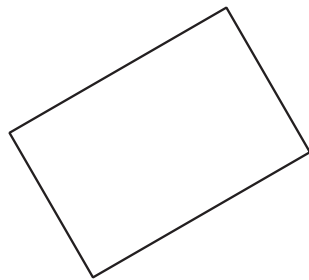
2. a.

Circle the shape that is the same as



b.

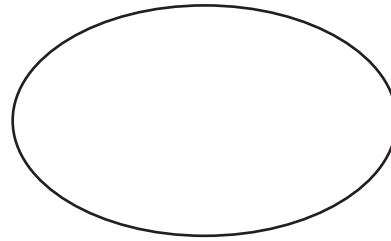
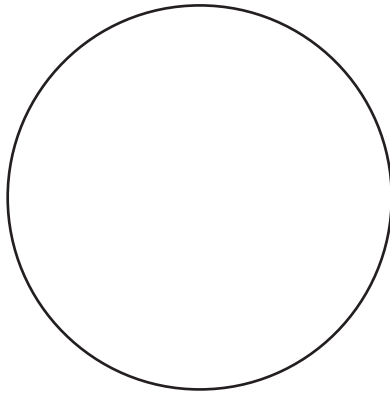
Circle the shape that is the same as



(From Unit 3, Lesson 2.)

3. How are the shapes alike?
How are they different?

a.

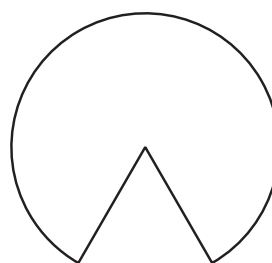
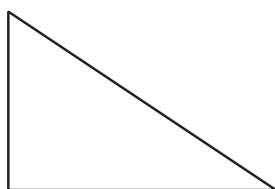
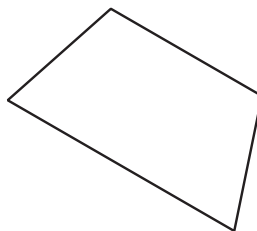
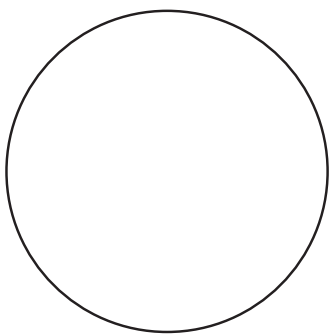


b.



(From Unit 3, Lesson 3.)

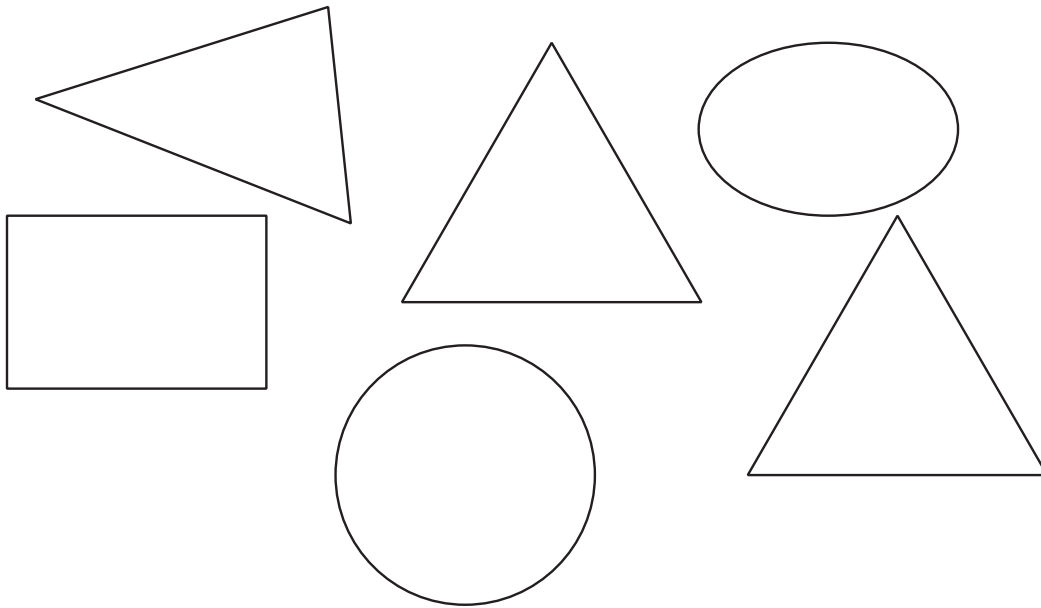
4. Circle the shapes that have curved sides.



(From Unit 3, Lesson 4.)

5. Color in the triangles.

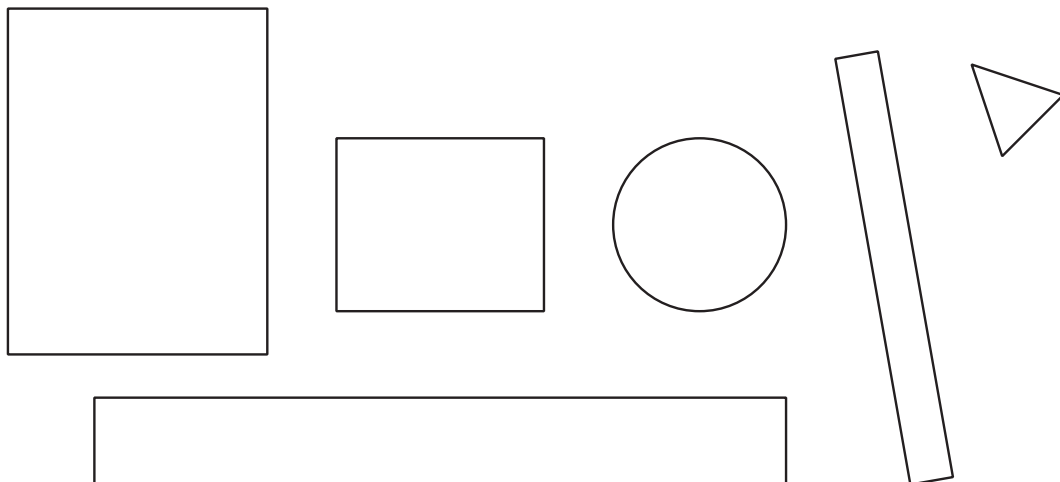
Cross out the shapes that are not triangles.



(From Unit 3, Lesson 5.)

6. Color in the rectangles.

Cross out the shapes that are not rectangles.



(From Unit 3, Lesson 6.)

7. Circle the rectangle that is longer.

a.



b.



c.

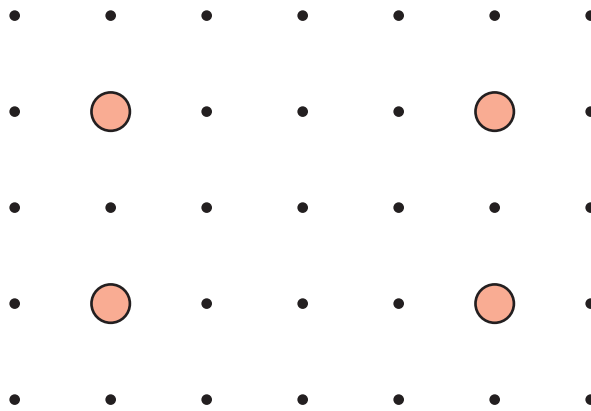


d.

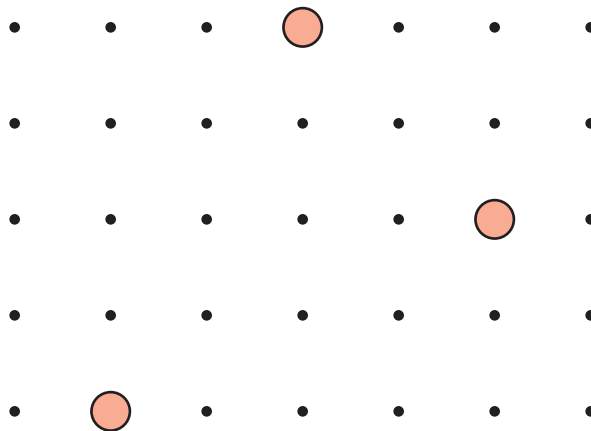


(From Unit 3, Lesson 7.)

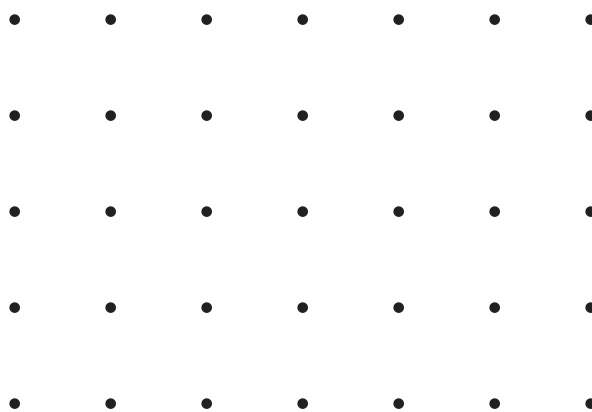
8. a. Connect the dots.
What shape did you draw?



- b. Connect the dots.
What shape did you draw?



c. Draw a shape with 4 sides and 4 corners on the dot paper



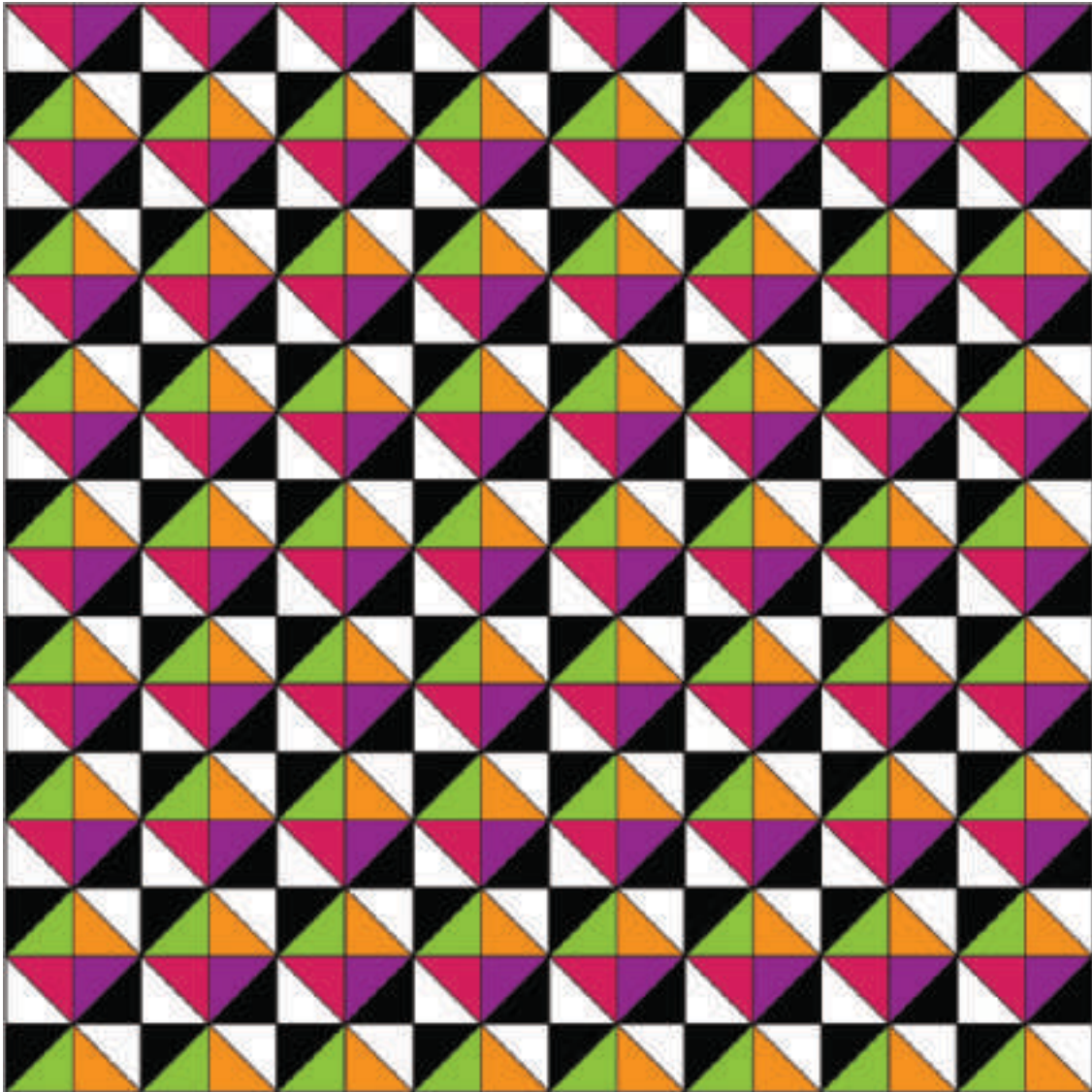
(From Unit 3, Lesson 8.)

9. What shapes do you see in this picture?



(From Unit 3, Lesson 9.)

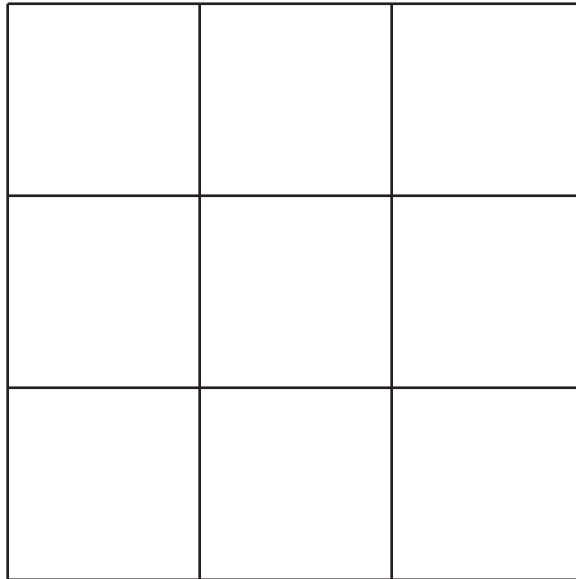
10. Exploration



a. Where do you see triangles in this picture?

b. Where do you see rectangles in this picture?

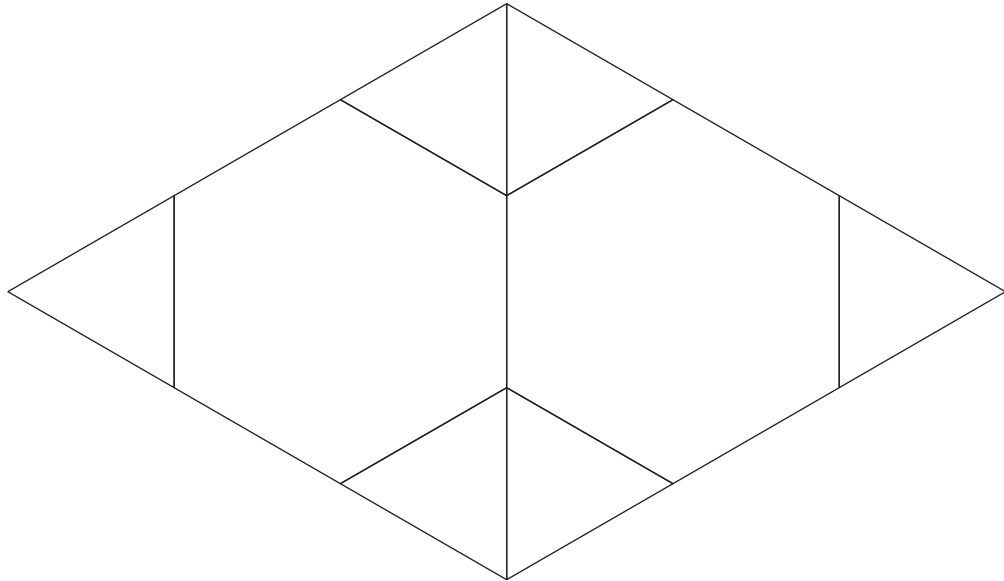
11. Exploration



- a. How many different size squares do you see?
- b. How many squares do you see altogether?

Section B: Practice Problems

1. a. Fill in the pattern block puzzle.

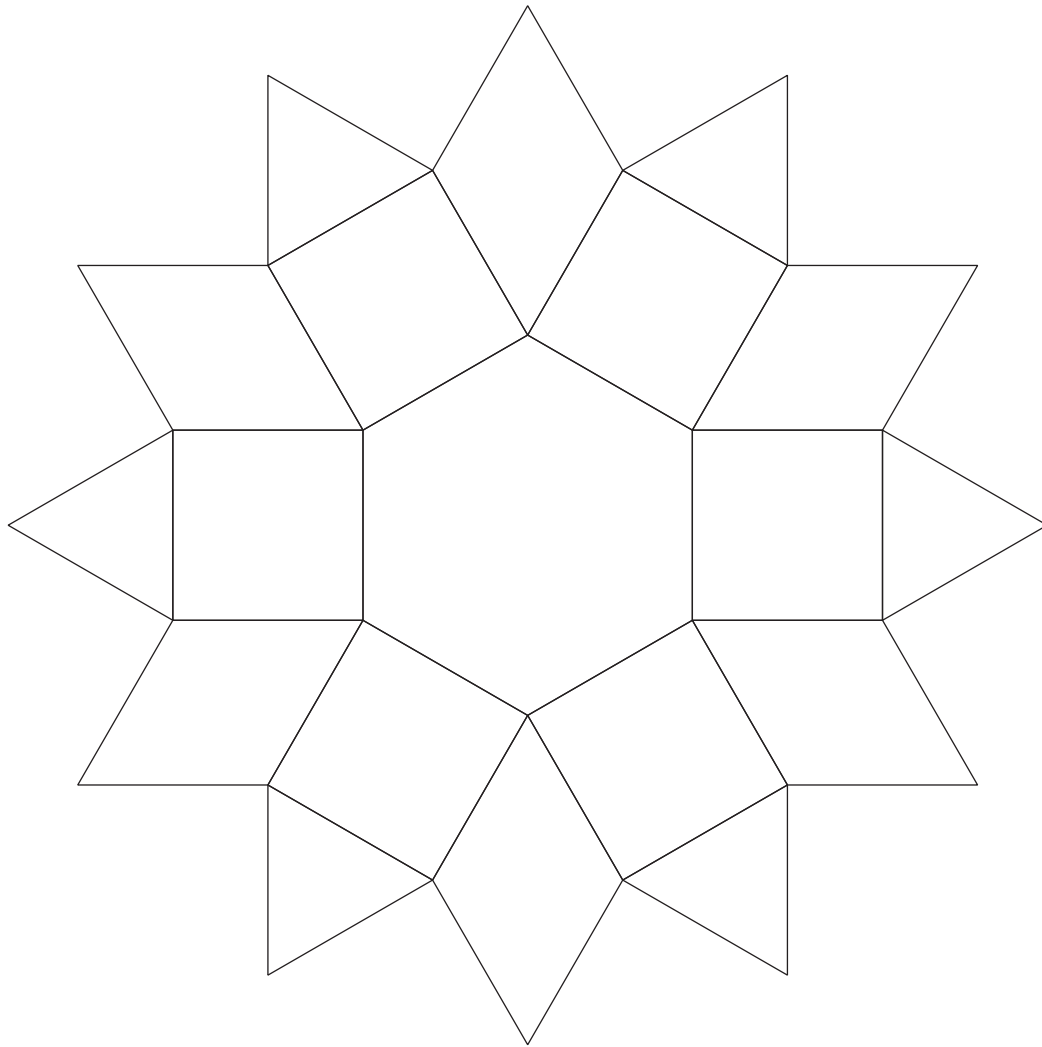


- b. How many green triangles did you use?

- c. How many yellow hexagons did you use?

(From Unit 3, Lesson 10.)

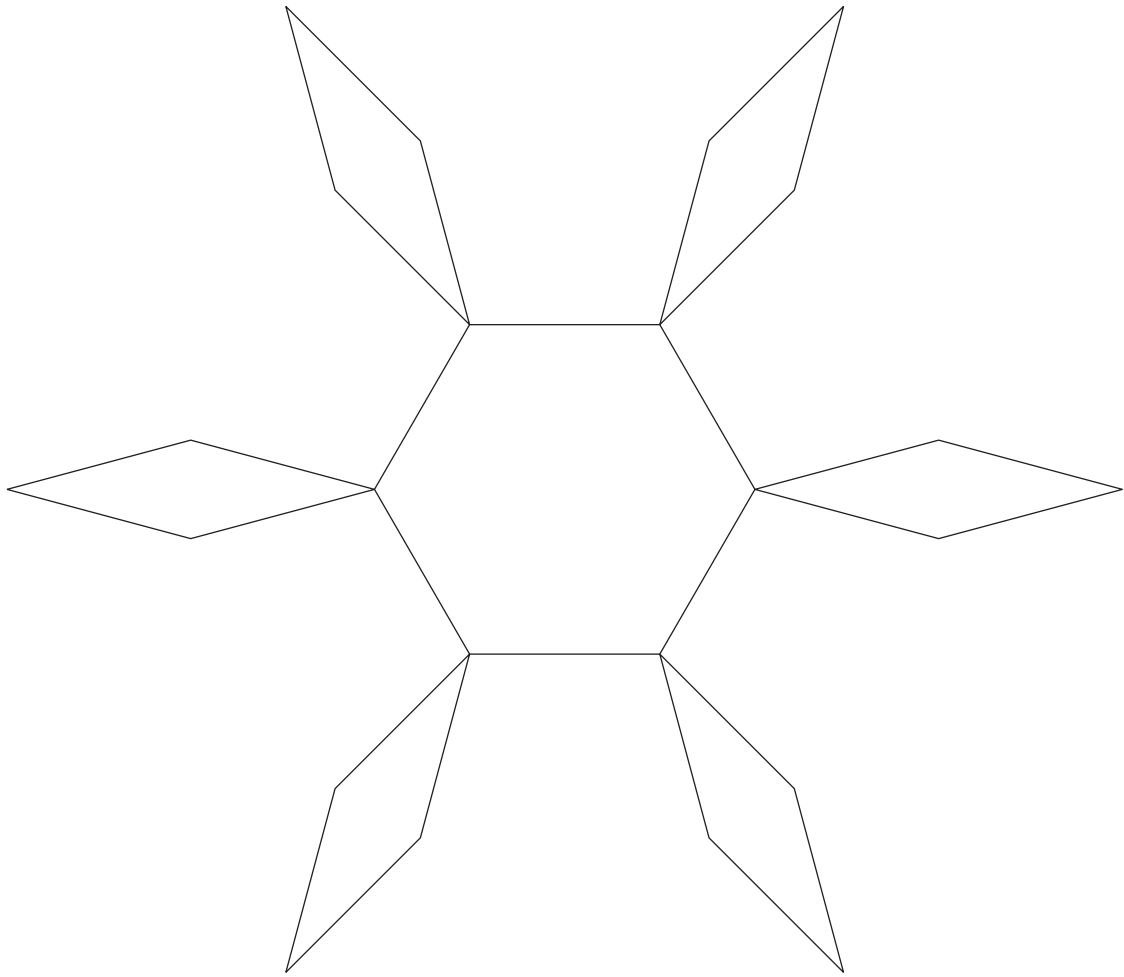
2. a. Color in all of the squares.



b. How many squares did you color?

(From Unit 3, Lesson 11.)

3. Fill in the puzzle.



Can you fill in the puzzle a different way?

(From Unit 3, Lesson 12.)

4. a. Build a shape with a hexagon, 3 triangles, and a square.

b. Describe where the square is in the shape.

(From Unit 3, Lesson 13.)

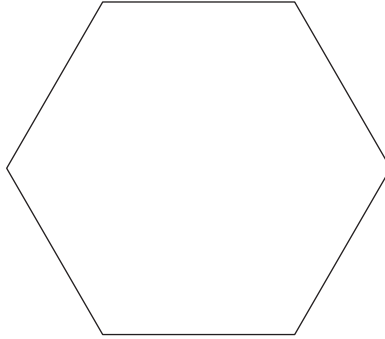
5. What shapes do you recognize in the picture?



(From Unit 3, Lesson 14.)

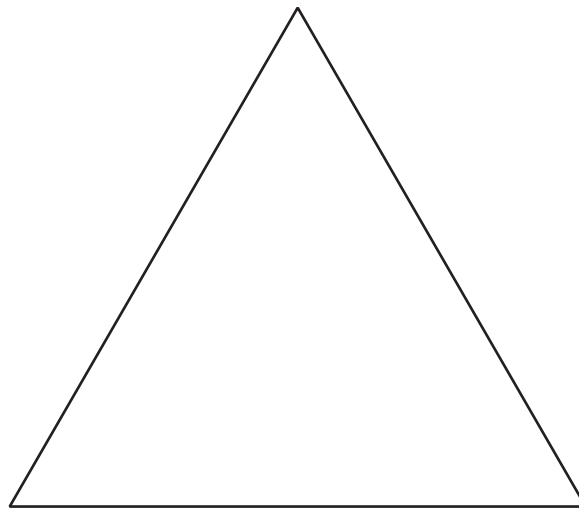
6. Exploration

How many different ways can you fill in the puzzle?



7. Exploration

- a. Fill in the pattern block puzzle in some different ways.



- b. Jada filled in the puzzle with 9 pattern blocks.
Which pattern blocks do you think Jada used?
- c. Can you fill in the puzzle with 3 pattern blocks?

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