Solid Shapes All Around Us

Kindergarten : Unit 7

Standards addressed: K.CC.A.1, K.CC.A.3, K.CC.B.5, K.CC.C.6, K.CC.C.7, K.G.A.1, K.G.A.2, K.G.A.3,K.G.B.4, K.G.B.5, K.G.B.6, K.MD.A.1, K.MD.A.2, K.MD.B.3, K.NBT.A.1, K.OA.A.1, K.OA.A.2, K.OA.A.3, K.OA.A.4, K.OA.A.5

Unit 7 Progression Overview

Solid Shapes All Around Us

Section A
Lessons 1-6

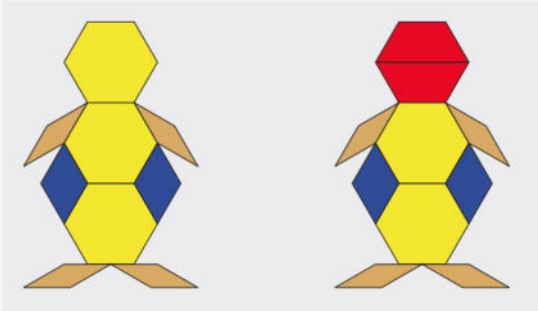
K.CC.A.1, K.CC.A.3, K.CC.B.5, K.CC.C, K.CC.C.6, K.CC.C.7, K.G, K.G.B.5, K.G.B.6, K.NBT.A.1, K.OA, K.OA.A.1, K.OA.A.2, K.OA.A.3, K.OA.A.4

- ➔ Compose shapes from smaller shapes.
- ➔ Count, compare, and solve story problems involving shapes.

Section B
Lessons 7-16

K.CC.A.1, K.CC.A.3, K.CC.B.5, K.G, K.G.A.1, K.G.A.2, K.G.A.3, K.G.B.4, K.G.B.5, K.G.B.6, K.MD.A, K.MD.A.1, K.MD.A.2, K.MD.B.3, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

- ➔ Compare weight and capacity of objects.
- ➔ Compose shapes from smaller shapes.
- ➔ Describe and compare three-dimensional shapes.



Unit 7 Quick Links

L1 L2 L3 L4 L5 L6

L7 L8 L9 L10 L11 L12

L13 L14 L15 L16

1

Build Shapes

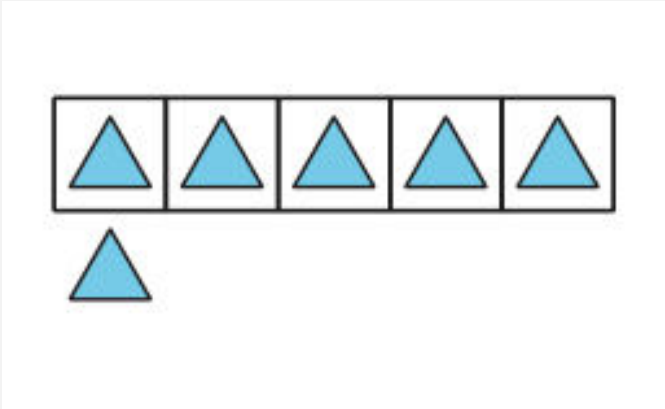
Let’s use 1 kind of pattern block to make shapes.

K.CC, K.CC.A.3, K.CC.B.5, K.G, K.G.B.6, K.NBT.A.1, K.OA.A.4

Warm up

How Many Do You See: Triangles

How many do you see?

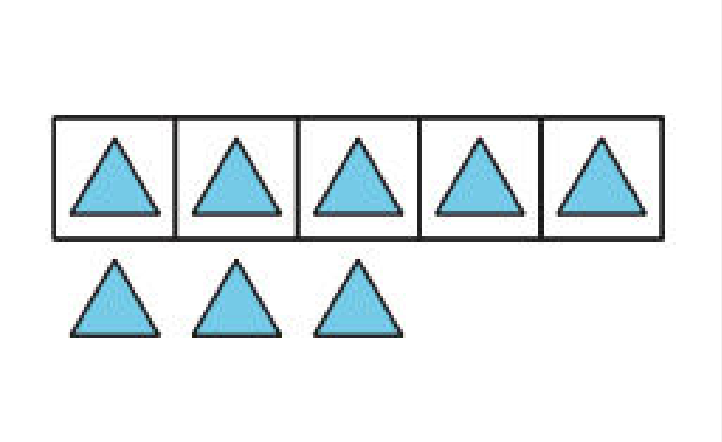


How do you see them?

Warm up

How Many Do You See: Triangles

How many do you see?

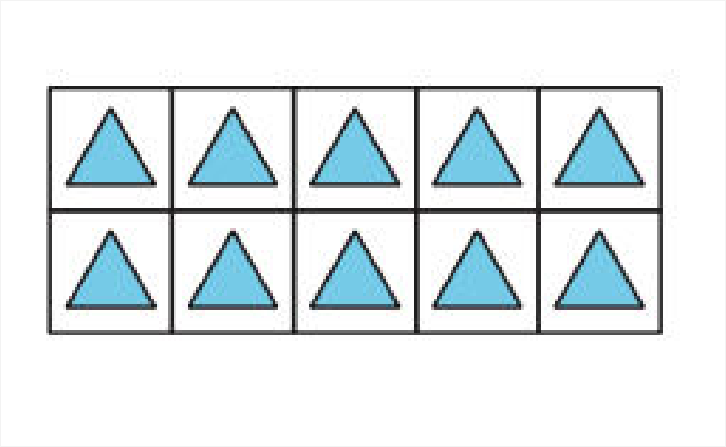


How do you see them?

Warm up

How Many Do You See: Triangles

How many do you see?

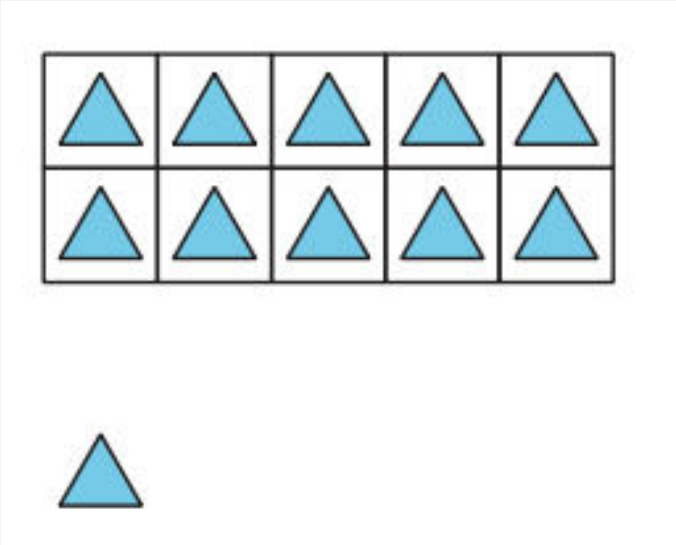


How do you see them?

Warm up

How Many Do You See: Triangles

How many do you see?

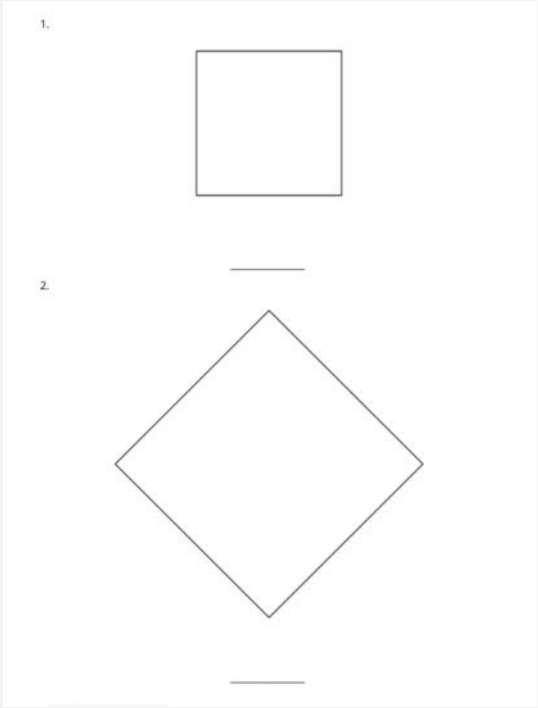


How do you see them?

Squares, Squares, Squares

Activity #1

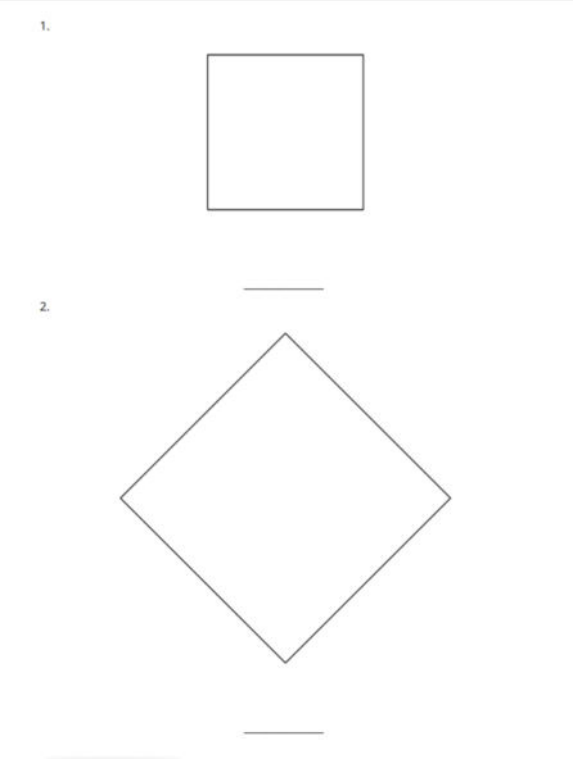
What do you notice?



What do you wonder?

Activity #1

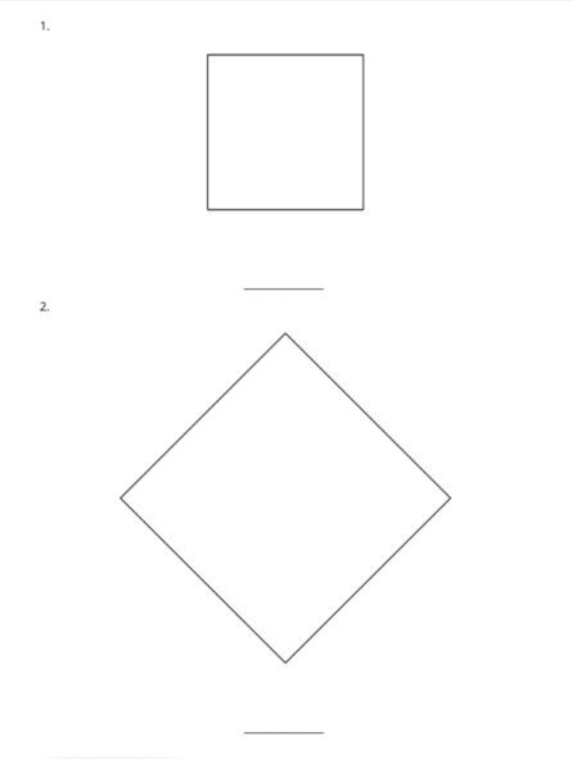
Squares, Squares, Squares



- Fill in both shapes using only orange square pattern blocks.
- Then write a number to show how many squares you used to fill in each shape.
- Work with your partner to make another shape that is a square. You can use any kind of pattern blocks.
- Then write a number to show how many pattern blocks you used.

Activity #1

Squares, Squares, Squares



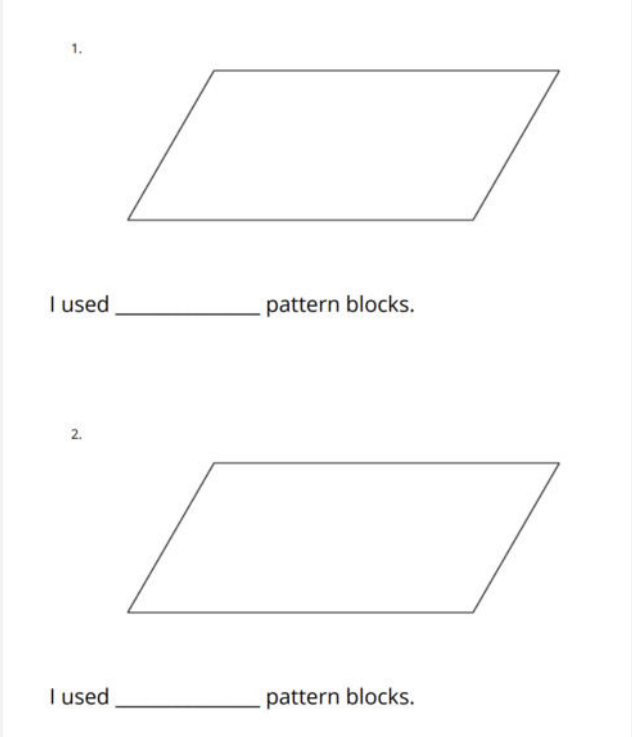
- Work with your partner to make a shape that is not a square. Use the orange square pattern blocks
- Trace or draw the shape that you made that is not a square. Then write a number to show how many orange square pattern blocks you used.

Make Rhombuses

Activity #2

In the last activity, we used square pattern blocks to make squares.

- Work with your partner to fill in this puzzle of a rhombus, using only the blue rhombus pattern blocks.



Make Rhombuses

Activity #2

- How many rhombus pattern blocks did you use to fill in the puzzle? Write a number to show how many pattern blocks you used.
- Can you use another kind of pattern block to fill in the rhombus?

1.

I used _____ pattern blocks.

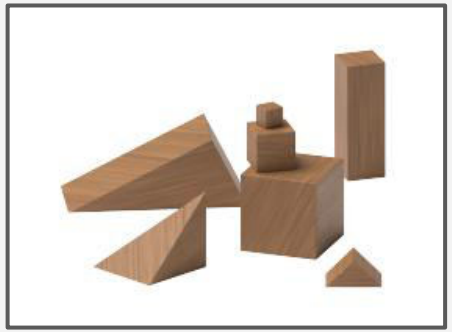
2.

I used _____ pattern blocks.

Activity #3

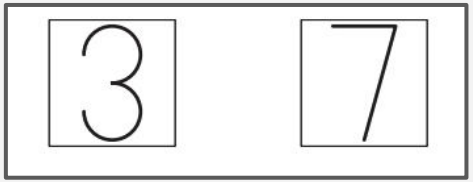
Centers: Choice Time

Geoblocks,
Explore and Build It



Grab and Count,
Guess then Count

Find the Pair,
Make 10



Lesson Synthesis

Today we used all of the same kind of pattern blocks to make shapes and fill in puzzles.

How many pattern blocks did you use?

Can you use the triangle pattern blocks to make a bigger triangle?

2

More or Fewer Pattern Blocks

Let’s figure out if there are more triangles or more trapezoids.

K.CC.A.1, K.CC.B.5, K.CC.C, K.CC.C.6, K.CC.C.7, K.G, K.G.B.6, K.OA.A.4

Warm up

Choral Count: Count by 10

Let's count to 100.

Now let's count to 100 by 10.

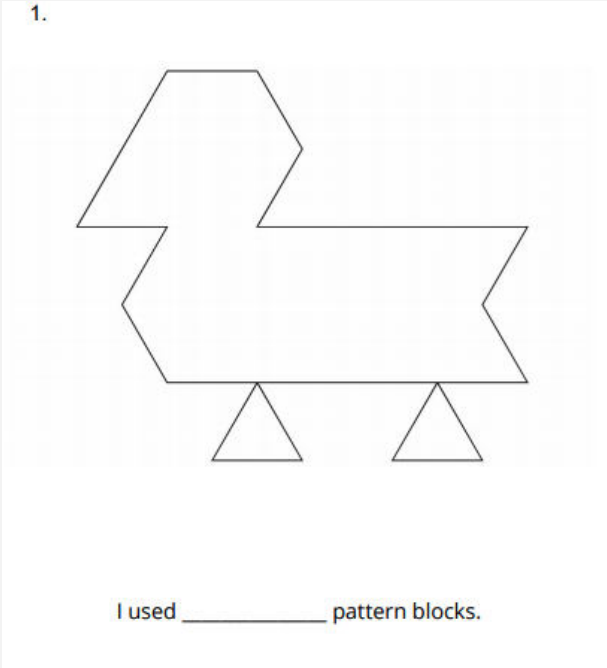
10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Quack Quack

Activity #1

Fill in the duck puzzle.

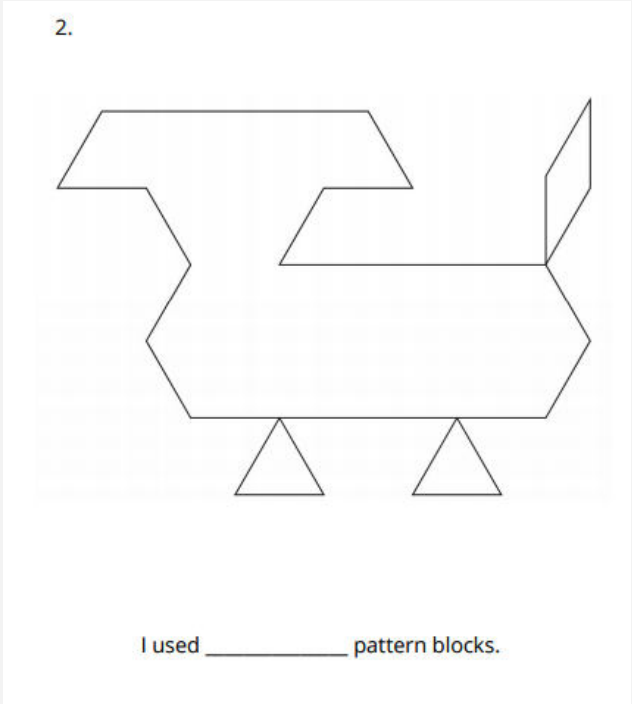
- Only use green triangles and red trapezoids.
- Write a number to show how many pattern blocks you used.
- Did you use fewer red trapezoids or green triangles? How do you know?



Quack Quack

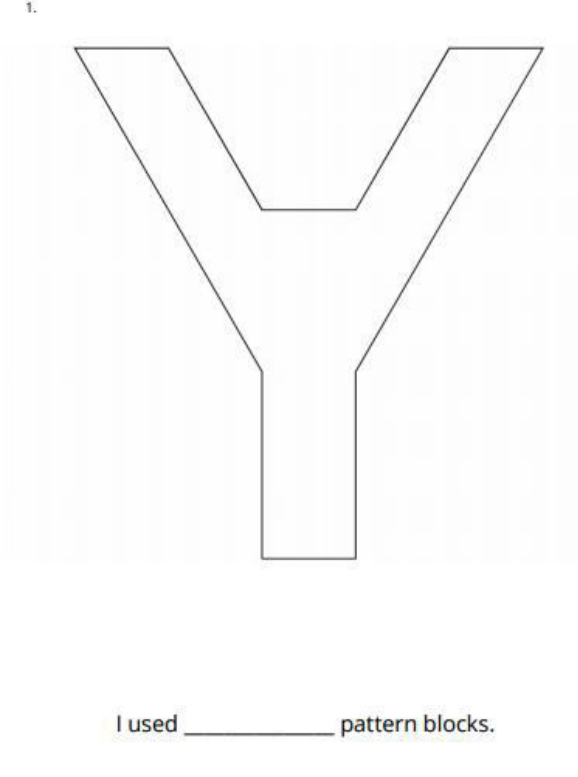
Activity #1

- Work with your partner to fill in the dog puzzle with pattern blocks.
- Write a number to show how many pattern blocks you used.
- Tell your partner about the pattern blocks you used with the words “more” and “fewer.



Activity #2

Make a Y

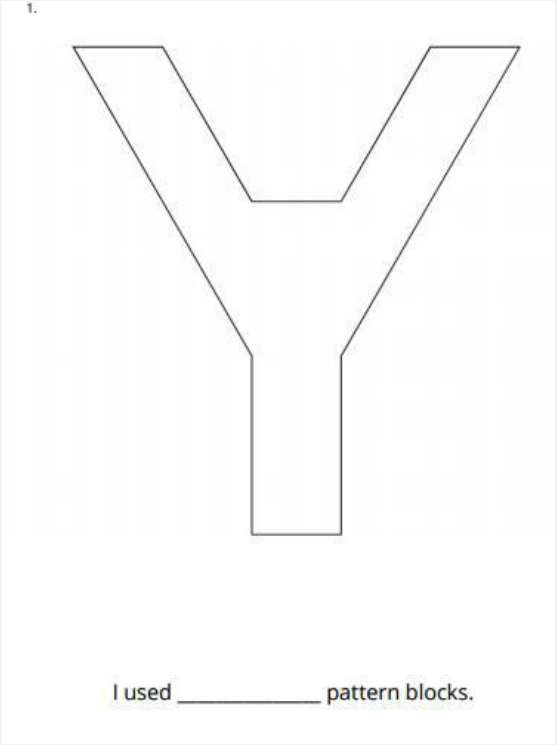


- Use the pattern blocks to fill in this puzzle. Write a number to show how many pattern blocks you used.
- Share your puzzle with your partner. Who used more pattern blocks to fill in their puzzle?

Activity #2

Make a Y

- Fill in the puzzle again on the second page and write a number to show how many pattern blocks you used. Your goal is to try to use more pattern blocks to fill in the puzzle than your partner.
- Figure out if you or your partner used more pattern blocks to fill in the puzzle.



Activity #3

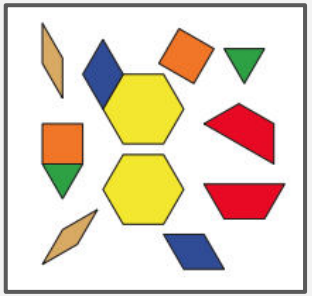
Centers: Choice Time

Geoblocks, Explore and Build It

Grab and Count, Guess then Count

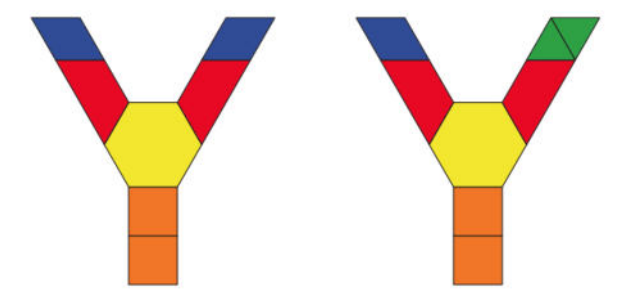
Find the Pair, Make 10

Pattern Blocks, Place the Last Pattern Block



Lesson Synthesis

Today we solved puzzles in different ways and figured out if we used more or fewer pattern blocks.



Which puzzle uses fewer pattern blocks? How do you know?

3

Questions and Stories About Shapes

Let’s ask questions about shapes.

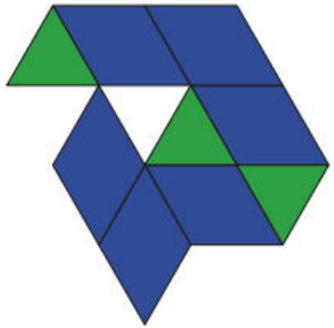
K.CC, K.CC.B.5, K.G, K.G.B.5, K.G.B.6, K.OA, K.OA.A.1, K.OA.A.2, K.OA.A.4

Warm up

Notice and Wonder: Mai's Shape

What do you notice?

Mai used pattern blocks to make this shape.



What do you wonder?

Activity #1

Ask Math Questions About Shapes

- Put together pattern blocks to make a shape.
- Walk around and look at the shapes that everyone created.
- Think of at least one question that you can ask about each shape that you see.
- Write down at least one question that you want to share with the class. You can draw a picture or write words and numbers to help you remember the question.

Tell Math Stories About Shapes

Activity #2

Put together pattern blocks to make a shape.

Use 2 different kinds of pattern blocks.

- Think of a story problem that you could tell your partner about your shape. Remember to think of a question to go at the end.
- Share the shape you created and the story problem with your partner. Solve the story problem that your partner shares. Show your thinking using objects, drawings, numbers, or words.

Activity #3

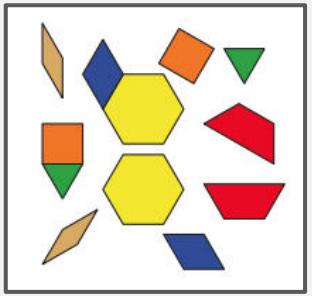
Centers: Choice Time

Geoblocks, Explore and Build It

Grab and Count, Guess then Count

Find the Pair, Make 10

Pattern Blocks, Place the Last Pattern Block



Lesson Synthesis

Today we asked math questions and told stories about shapes made from pattern blocks.

Andre used 4 square pattern blocks to make a car.
Then he put 2 hexagon pattern blocks on the car to make the wheels.

$$4 + 2 = 6.$$

What question can Lin ask at the end of the story?

We can write 4 + 2 = 6 to show what happened in the story. We can read it as 4 plus 2 is 6 or 4 plus 2 equals 6

4

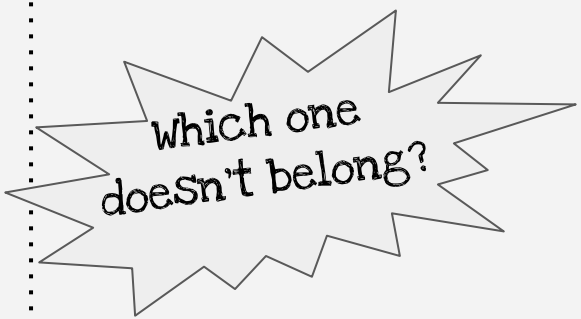
Pattern Block Puzzles and Equations

Let’s use equations to show how many of each shape we used.

K.CC.B.5, K.G, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.4

Warm up

Which One Doesn't Belong: Equations



A

$3 + 3 = 6$

B

$6 = 4 + 2$

C

$4 + 3 = 7$

D

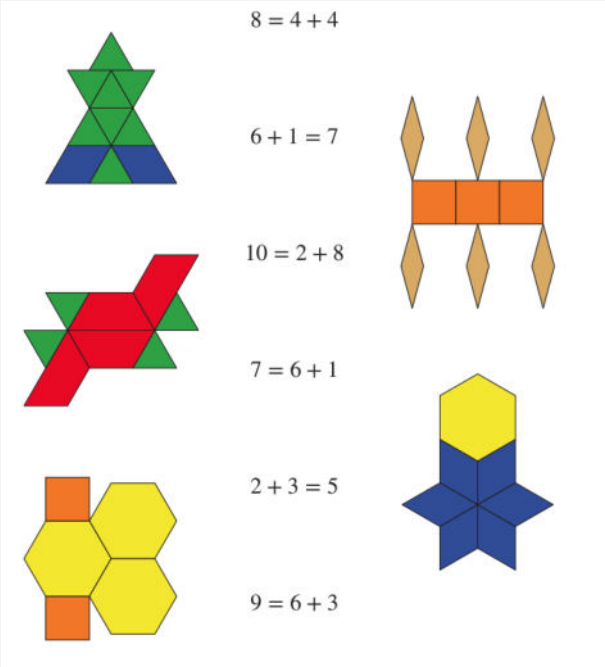
$4 + 2 = 6$

Match Equations to Pattern Block Puzzles

Activity #1

- Let's read each equation together.
- Read each equation using both "is" and "equals."

- Draw a line from each equation to the shape that it matches.



Make Shapes to Represent Equations

Activity #2

Put together pattern blocks to make a shape that matches each equation. Trace or draw each shape that you make."

$4 = 1 + 3$

$10 + 0 = 10$

$5 + 4 = 9$

$8 = 2 + 6$

$3 + 3 = 6$

$7 = 2 + 5$

Activity #3

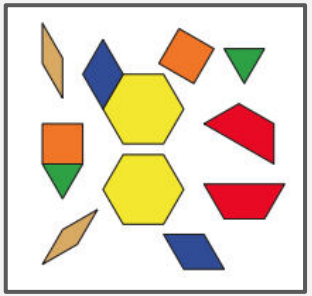
Centers: Choice Time

Geoblocks, Explore and Build It

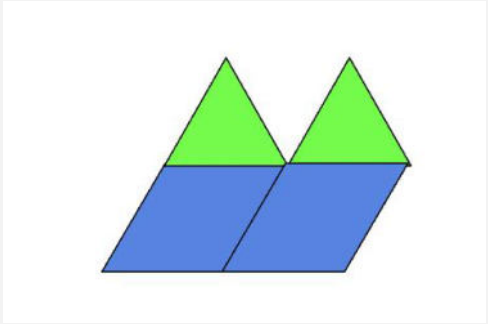
Grab and Count, Guess then Count

Find the Pair, Make 10

Pattern Blocks, Place the Last Pattern Block



Lesson Synthesis



Elena made this shape to match an equation. What equation do you think she was trying to match?

5

Story Problems about Shapes

Let’s solve the story problems and match them to equations.

K.CC.B.5, K.G, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.4

Warm up

Notice and Wonder: Questionless Story Problem

What do you notice?

Elena used 9 pattern blocks to make a train.
Then she took 3 of the pattern blocks off of the train and put them back in the bucket.

What do you wonder?

Matching Story Problems to Equations

Activity #1

1. Clare made a shape with 7 pattern blocks. Her little brother came and took 3 of the pattern blocks.

How many pattern blocks does Clare have now?

$$7 = 4 + 3$$

$$7 - 3 = 4$$

$$7 + 3 = 10$$

2. Kiran put together 2 pattern blocks to make a shape. Jada placed 5 more pattern blocks on the shape.

How many pattern blocks are in Kiran and Jada's shape?

$$5 - 2 = 3$$

$$4 = 2 + 2$$

$$2 + 5 = 7$$

Solve Story Problems

Activity #2

1. Andre put together 4 pattern blocks to make a shape.

Then Andre put 4 more pattern blocks on the shape.

How many pattern blocks are in Andre's shape?

Equation:

2. Elena used 9 pattern blocks to make a train.

Then she took 3 of the pattern blocks off of the train and put them back in the bucket.

How many pattern blocks does Elena have now?

Equation:

Activity #3

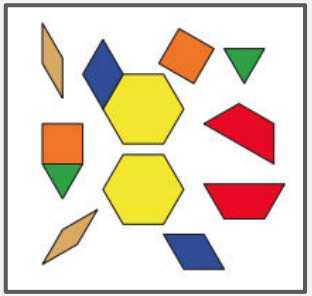
Centers: Choice Time

Geoblocks, Explore and Build It

Grab and Count, Guess then Count

Find the Pair, Make 10

Pattern Blocks, Place the Last Pattern Block



Lesson Synthesis

Today we solved story problems and used equations to show what happened in the story problems.

Think of a story that involves subtraction, or taking away. Tell the story to your partner.

What equation could you use to show what happens in your story?

6

Compose and Decompose 10 with Pattern Blocks

Let’s find different ways to make 10 using our pattern blocks.

K.CC.A.1, K.CC.B.5, K.G, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.3, K.OA.A.4

Warm up

Choral Count: Count by 10

what patterns do you see?

Let's count to 100 by 10

Activity #1

Diego's Shape

Diego built a shape with 10 pattern blocks.

He only used squares and triangles.

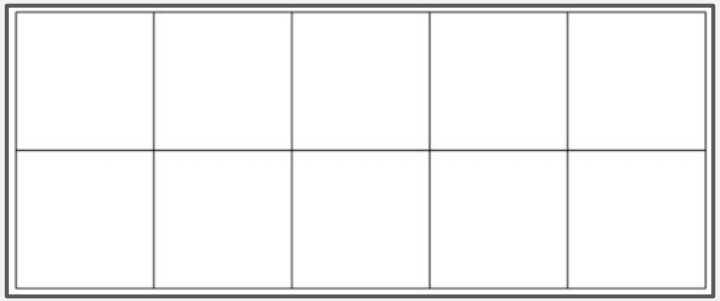
How many square pattern blocks did Diego use?

Then how many triangle pattern blocks did Diego use?

Many Ways to Make 10

Activity #2

- Work with your partner to put together 10 pattern blocks to make a shape. Only use blue rhombuses and red trapezoids.
- Draw the shape that you created on the first page on your book.
- What numbers or words can you use to describe the shape that you created?
- At the top of the page, write a number to show how many pattern blocks you used altogether.
- At the bottom of the page, write numbers or words to show how many red trapezoids and how many blue rhombuses you used.



Activity #3

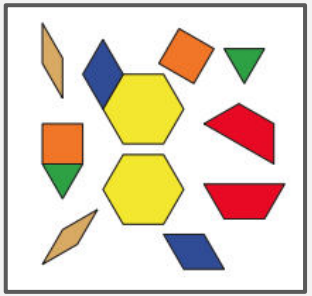
Centers: Choice Time

Geoblocks, Explore and Build It

Grab and Count, Guess then Count

Find the Pair, Make 10

Pattern Blocks, Place the Last Pattern Block



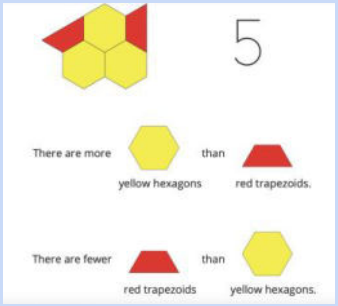
Lesson Synthesis

Tyler made a shape with 10 pattern blocks, some blue rhombuses and some red trapezoids. If he used 4 trapezoids, how many rhombuses did he use?

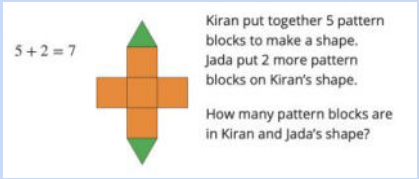
Section Summary

In this section, we put together pattern blocks to fill in puzzles and make shapes.

We wrote numbers to show how many pattern blocks we used and figured out which pattern blocks we used more of.

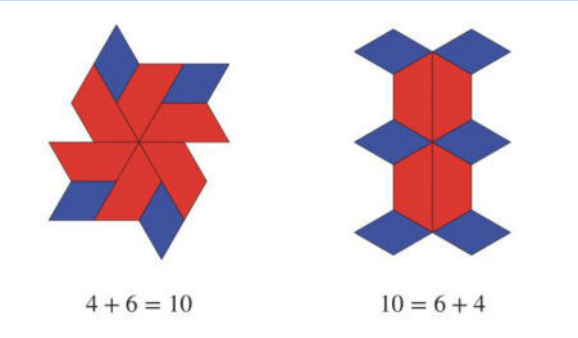


We matched equations to pattern block shapes and to story problems.



Section Summary

We showed many different ways to make 10 using different types of pattern blocks.



7

Flat and Solid Shapes

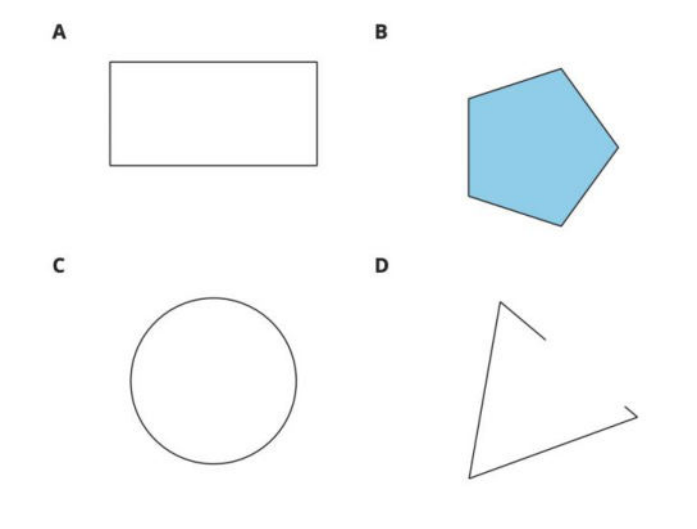
Let’s build shapes with clay.

K.CC.A.3, K.G, K.G.A.1, K.G.A.3, K.G.B.4, K.G.B.5, K.G.B.6, K.MD.B.3, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

Which One Doesn't Belong: Attributes of Flat Shapes

which one doesn't belong?



Activity #1

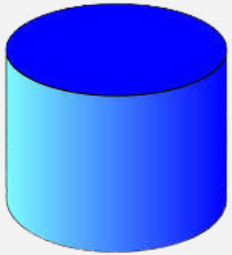
Create Shapes with Clay

- Use your clay to make a shape that you know.
- Share your shape with your partner.
  - How are they the same? How are they different?

Activity #1

Create Shapes with Clay

- Make this shape with your clay.



- Make this shape with your clay.

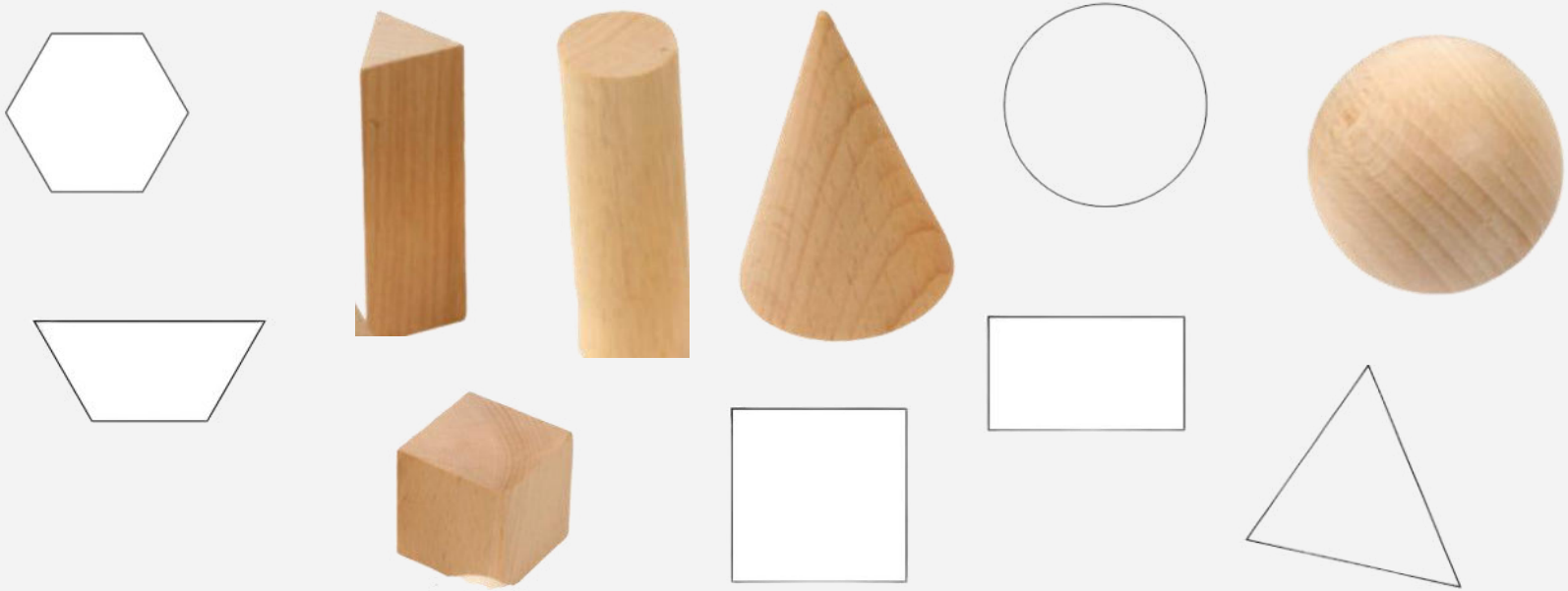
Describe the shape that you made to your partner.

What does it look like?

Sort Flat and Solid Shapes

Activity #2

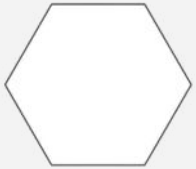
1. Work with your partner to sort the shapes into two groups.
2. Write a number to show how many shapes are in each group.



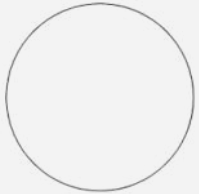
Sort Flat and Solid Shapes

Activity #2

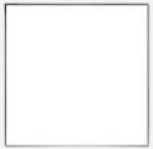
1. Pair up with another group. Show them how you sorted your shapes.
2. Did you sort all of the shapes in the same way?







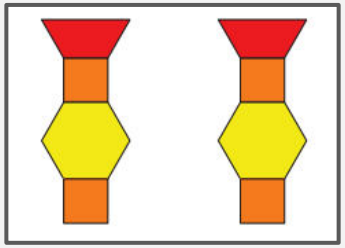



What could you call each group of shapes to show why you put those shapes together?

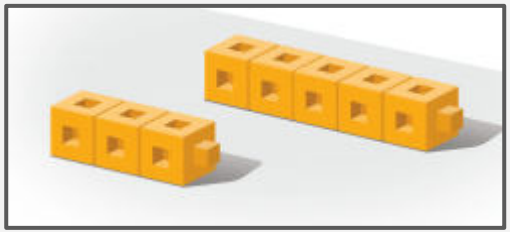
Activity #3

Centers: Choice Time

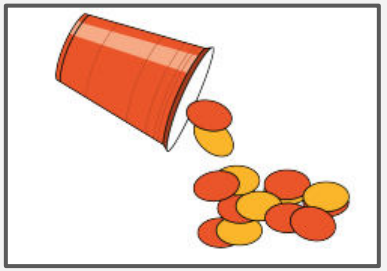
Match Mine, Pattern Blocks



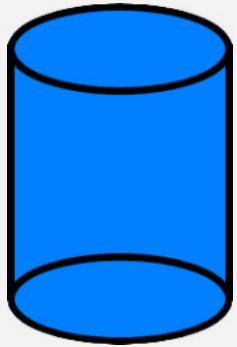
Snap the Cubes, How Many Are Missing?

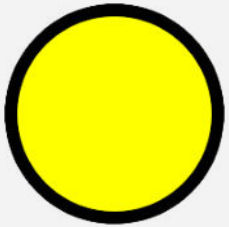


Shake and Spill, Represent and Cover



Lesson Synthesis





How are these shapes the same? How are they different?

8

Compare Weight

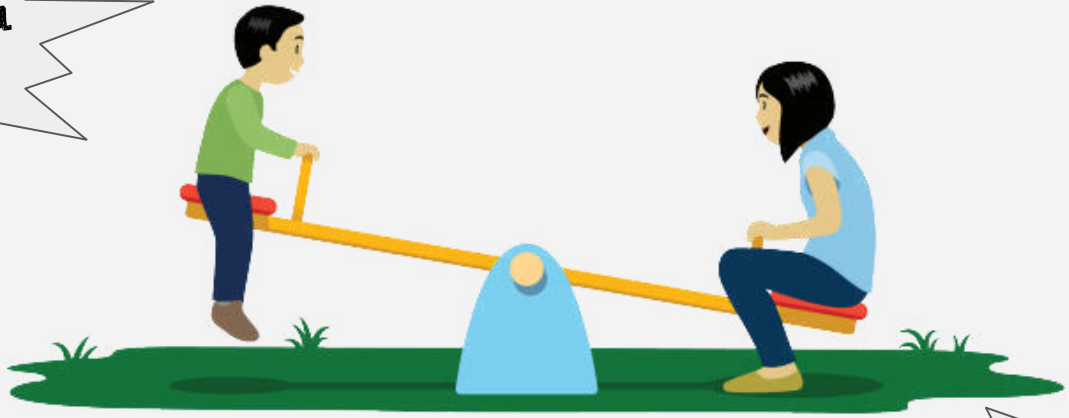
Let’s figure out which object is heavier or lighter.

K.CC.A.3, K.G.A.1, K.G.B.6, K.MD.A, K.MD.A.1, K.MD.A.2, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

Notice and Wonder: Seesaw

What do you notice?



What do you wonder?

Compare Weights of Boxes and Bags

Activity #1

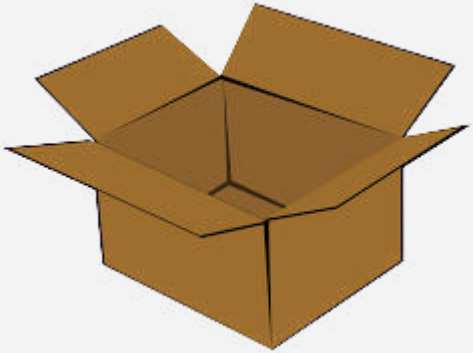
What are some things that you think are heavy?

What are some things that you think are light?

Compare Weights of Boxes and Bags

Activity #1

What do you notice?

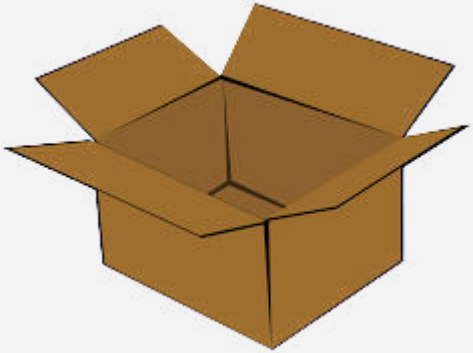


What do you wonder?

Compare Weights of Boxes and Bags

Activity #1

Which box do you think is heavier? Why do you think that?



How could we figure out which box is heavier?

Compare Weights of Boxes and Bags

Activity #1

Here are 2 bags, but we can't see what is inside. Which bag is heavier?

How could we figure out which bag is heavier?

Now that we have all felt the bags, which bag is heavier?

Tell your partner about the bags using 'lighter than.

Activity #2

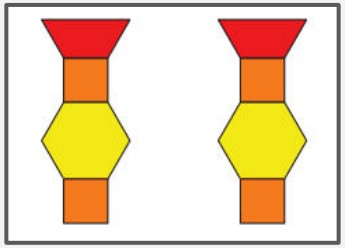
Compare Weights

- Choose 2 objects.
- Figure out which object is heavier and which is lighter.
- Draw a picture of each object.
- Circle the object that is heavier.

Activity #3

Centers: Choice Time

Match Mine, Pattern Blocks



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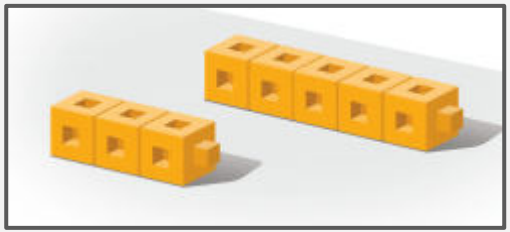
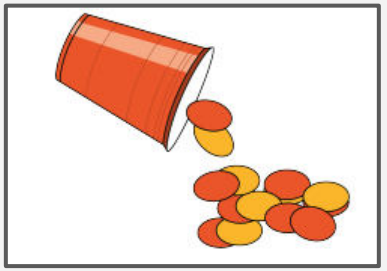
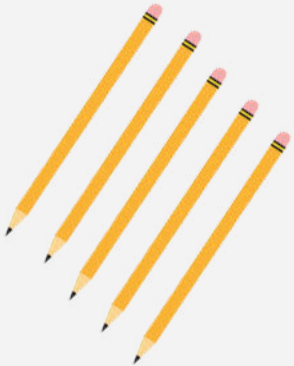


Shake and Spill, Represent and Cover



Lesson Synthesis



Han says that the crayons are heavier than the chair because there are 5 pencils and only 1 chair. What do you think about?

What can Han do to help him figure out if the chair or the pencils are heavier?

Compare Capacity

Let’s compare objects to see which one holds more.

Choral Count: Count by 10

Warm up

- Let's count to 100.
- Now let's count to 100 by 10.
- Take turns counting to 100 by 10 with your partner

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Capacity of Cups

Activity #1

Diego's class needs a lot of lemonade for a lemonade sale they are going to have at school.

Which container do you think they should use to hold the lemonade?

Why do you think that?

Capacity of Cups

Activity #1

Which of these cups do you think would hold more lemonade?

Put your sticky note by the cup that you think would hold more lemonade.

Which Cup Can Hold More Water?

Activity #2

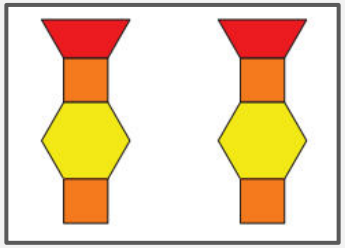
Elena likes to drink lots of water after dance class. She's trying to figure out which cup to use.

- Which cup holds more water?
- Work with your group to figure it out.

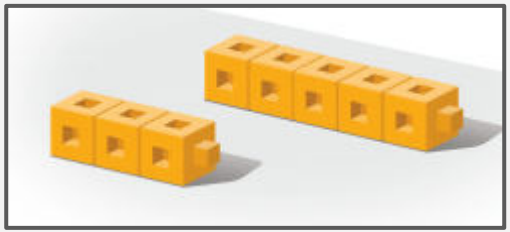
Activity #3

Centers: Choice Time

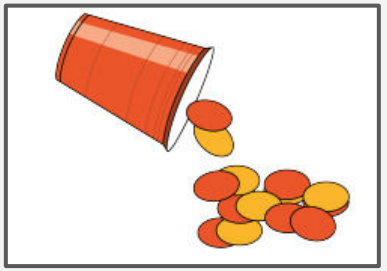
Match Mine, Pattern Blocks



Snap the Cubes, How Many Are Missing?



Shake and Spill, Represent and Cover



Lesson Synthesis

Today we figured out which container would hold more water.

Tell your partner about the shapes of the containers.

10

Identify and Describe Solid Shapes

Let’s make and describe solid shapes

K.CC.A.3, K.G, K.G.A.1, K.G.A.2, K.G.B.4, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

Number Talk:
Add within 5

Add:

Warm up

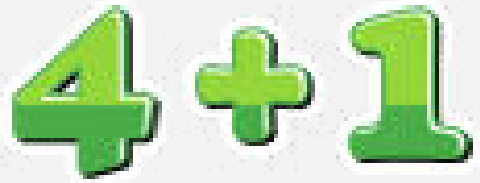
Number Talk:
Add within 5

Add:

Warm up

Number Talk: Add within 5

Add:



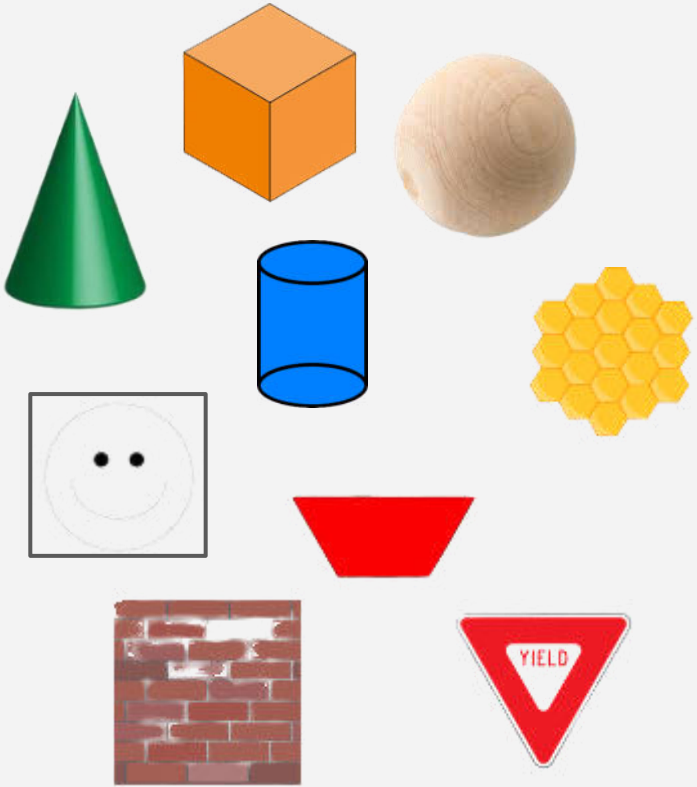
Warm up

Number Talk:
Add within 5

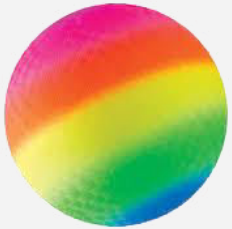
Add:

Make Solid Shapes

Activity #1



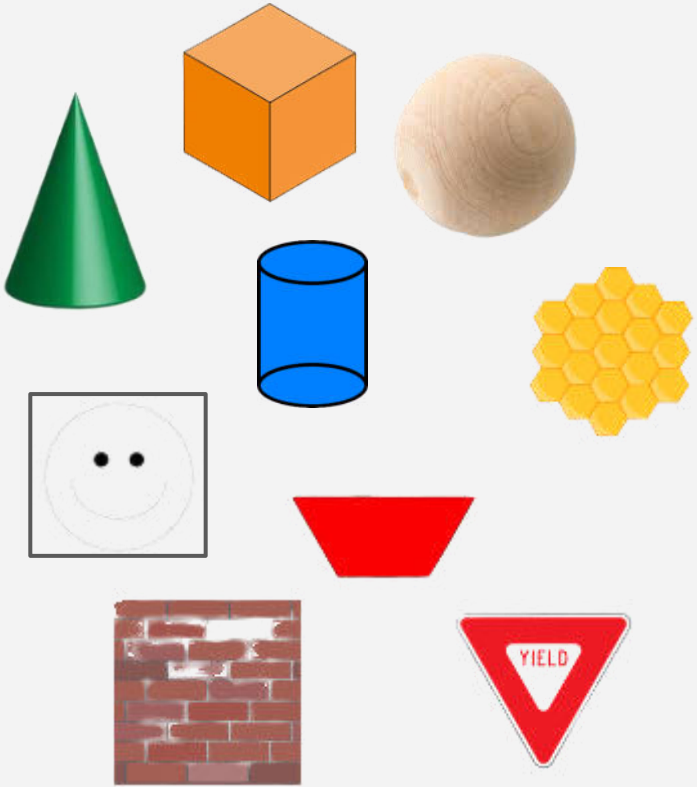
Pick up the shape that looks like the same shape as this ball.



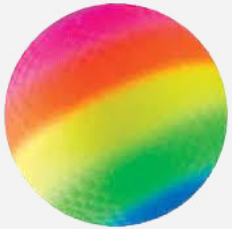
Use clay to make a shape that looks like this ball.

Make Solid Shapes

Activity #1



1. Share your shape with your partner. How are they the same? How are they different?



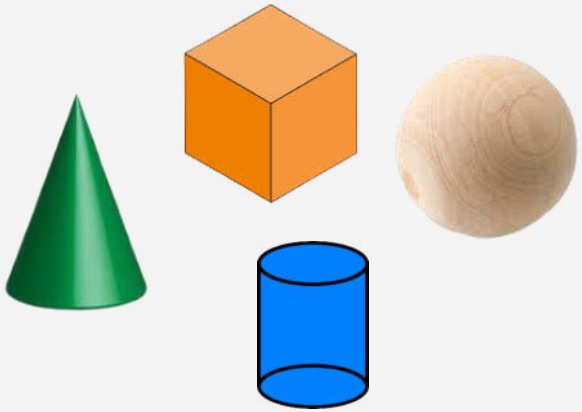
1. This shape is called a sphere. What are some things you know that are shaped like a sphere?

Introduce Guess My Shape, Solid Shapes

Activity #2

We are going to learn a new center activity called Guess My Shape, Solid Shapes.

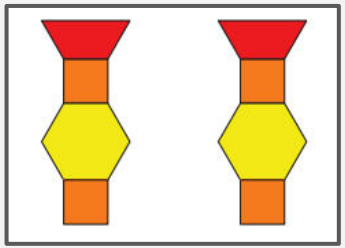
- Put the solid shapes in the middle, between you and your partner.
- Think of a shape but don't tell your partner.
- Describe one of the shapes to your partner.
- Your partner's job is to guess which shape you are describing.
- Once your partner figures out which shape you are describing, switch roles.



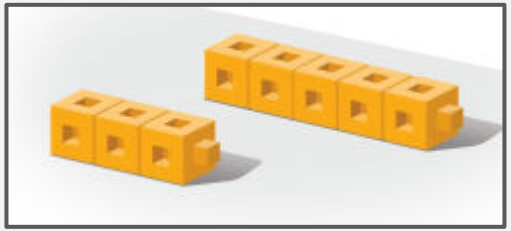
Activity #3

Centers: Choice Time

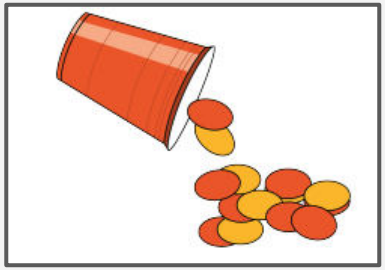
Match Mine, Pattern Blocks



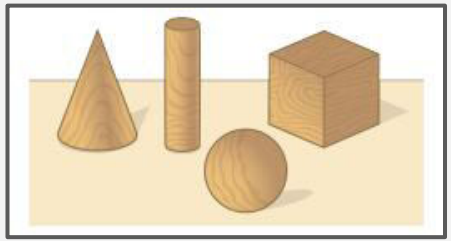
Snap the Cubes, How Many Are Missing?



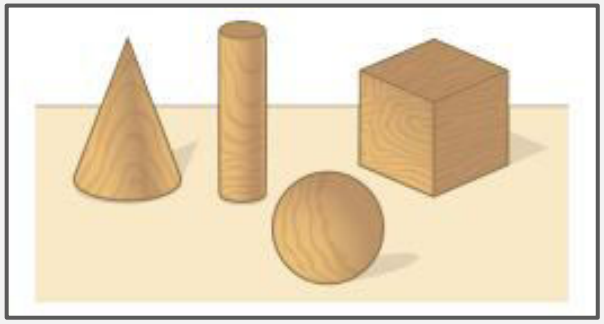
Shake and Spill, Represent and Cover



Guess My Shape, Solid Shapes



Lesson Synthesis



I am thinking of a shape that looks the same on all of the sides. It is a solid shape. It has squares on the sides. Which shape am I thinking of?

11

Compare and Sort Solid Shapes

Let’s figure out how solid shapes are alike and different.

K.CC.A.3, K.G, K.G.A.1, K.G.A.2, K.G.B.4, K.G.B.6, K.MD.B.3, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

What Do You Know About.....

Compare Solid Shapes

Activity #1

- Choose two shapes.
- Tell your partner at least one way the shapes are alike, or the same, and one way that they are different.
- Show your thinking with drawings or words.
- Take turns choosing two shapes and telling your partner at least one way that the shapes are alike and one way that the shapes are different.

Sort Solid Shapes

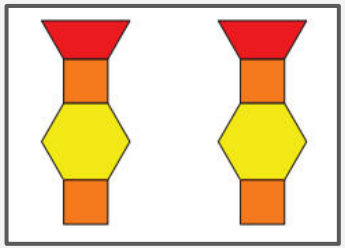
Activity #2

- Work with your partner to sort the shapes into two groups.
- Write a number to show how many shapes are in each group.
- Pair up with another group. Explain to them which shapes you put together and why.
- Sort your shapes in a different way.

Activity #3

Centers: Choice Time

Match Mine, Pattern Blocks



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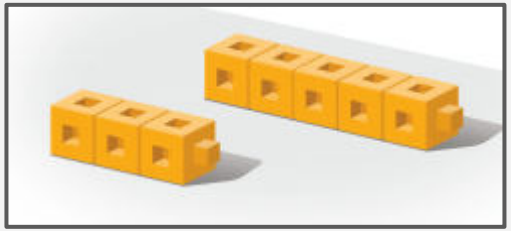
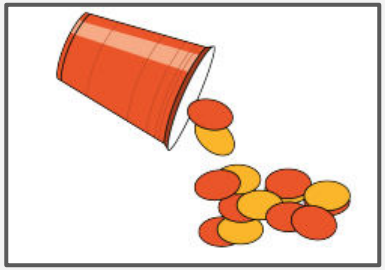
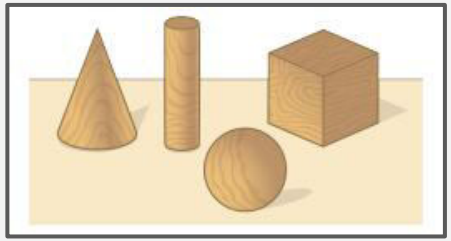


Shake and Spill, Represent and Cover



Guess My Shape, Solid Shapes

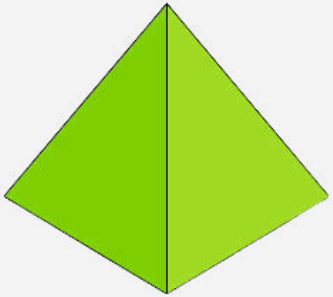


Geoblocks, Feel and Guess

Lesson Synthesis

I sorted these shapes into 2 groups. Why do you think that I put all of these shapes together and all of these shapes together?

Which category would you put this shape in? Why?



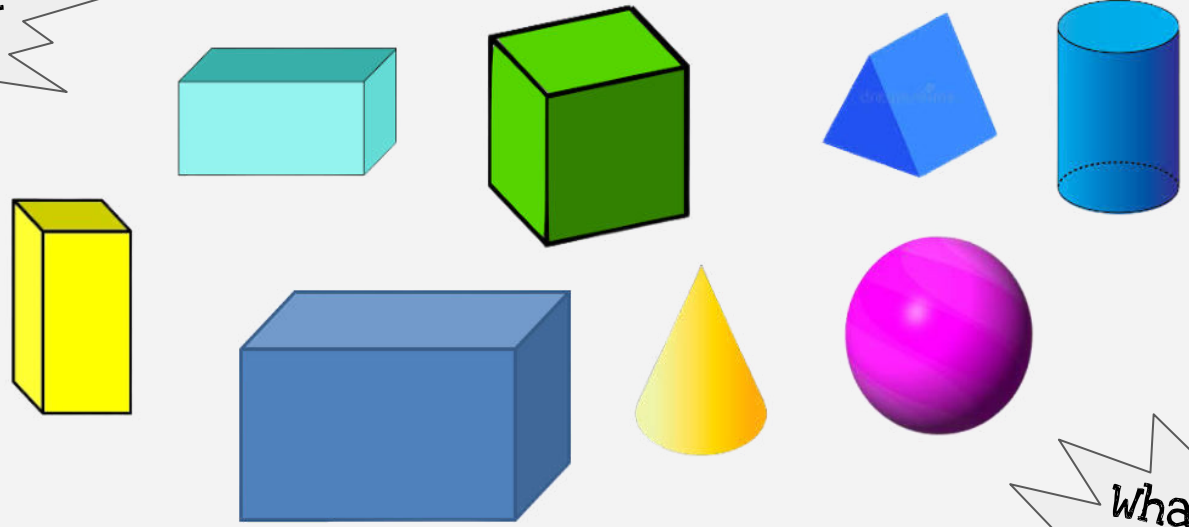
Build Solid Shapes

Let’s create solid shapes.

Warm up

Notice and Wonder: Sorted Shapes

What do you notice?

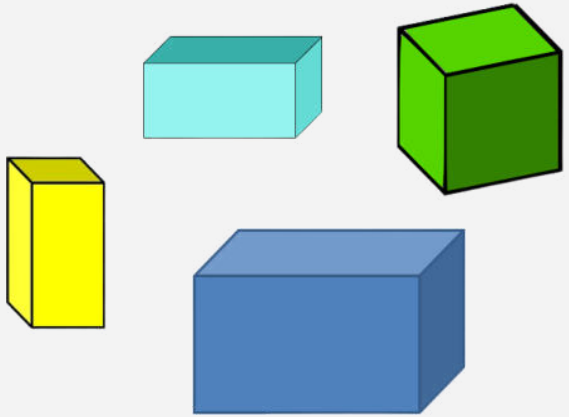


What do you wonder?

Make Boxes

Activity #1

We can call these shapes boxes.



Now use the connecting cubes to make your own box.

Introduce Build Shapes, Match the Solid Shape

Activity #2

Now we are going to learn another way to play Build Shapes.

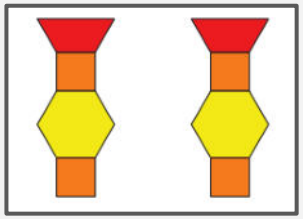
This game is called Build Shapes, Match the Solid Shape.

- Choose a solid shape. Work with your partner to make the solid shape using sticks and clay.
- Walk around and look at the shapes that your classmates made.

Activity #3

Centers: Choice Time

Match Mine, Pattern Blocks



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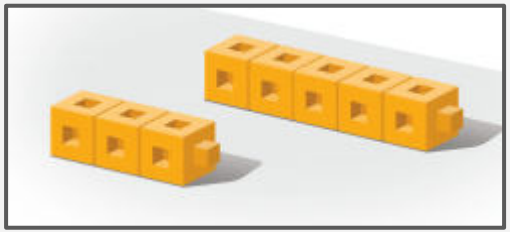

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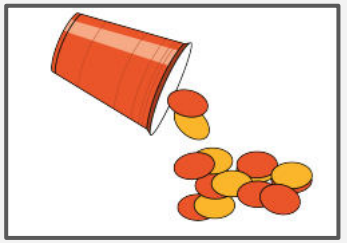
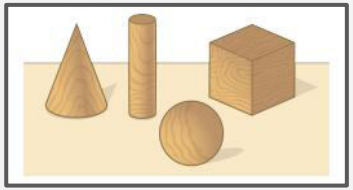
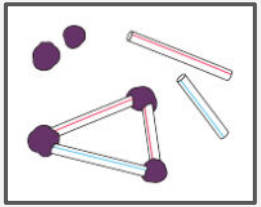


Guess My Shape, Solid Shapes



Geoblocks, Feel and Guess

Build Shapes, Match the Solid Shape



Lesson Synthesis

Today we worked with our partners to build solid shapes. What was one thing that your partner did to help you when you were building shapes?

What is one thing that you can do to be a good partner next time?

13

Describe Solid Shapes Around Us

Let’s find solid shapes in the library.

K.CC.A.3, K.G, K.G.A.1, K.G.A.2, K.G.B.4, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

Notice and Wonder: At the Market

What do you notice?

What do you wonder?

Activity #1

Solid Shape Walk

We are going to go for a walk. Your job is to look for objects that look like your solid shapes.

Tell your partner about the shapes you find.

Activity #1

Solid Shape Walk

Which shape does this clock look like?

Which shape does this party hat look like?

Make Shapes in the World

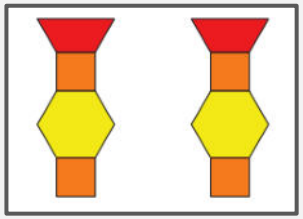
Activity #2

- “I saw a basketball on our walk. If I made it out of clay, which shape would it look like?”
- Pick one object that you saw on our shape walk. Choose the shape that the object is.
- Use your clay to make the shape.

Activity #3

Centers: Choice Time

Match Mine, Pattern Blocks



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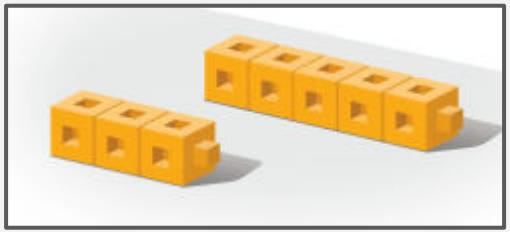

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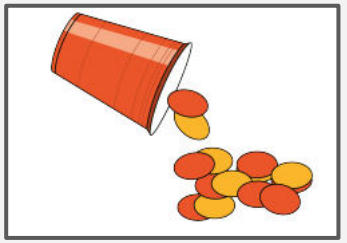
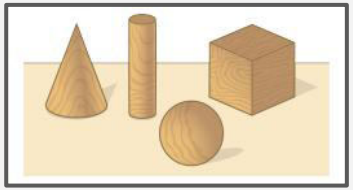
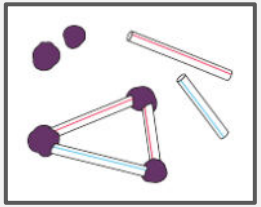


Guess My Shape, Solid Shapes



Geoblocks, Feel and Guess

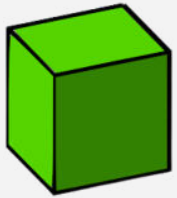
Build Shapes, Match the Solid Shape



Lesson Synthesis

Today we looked around the library for objects that look like solid shapes.

What are some solid shapes that you can find at home?



What are some objects that look like cubes that you can find at home?

14

Compose with Solid Shapes

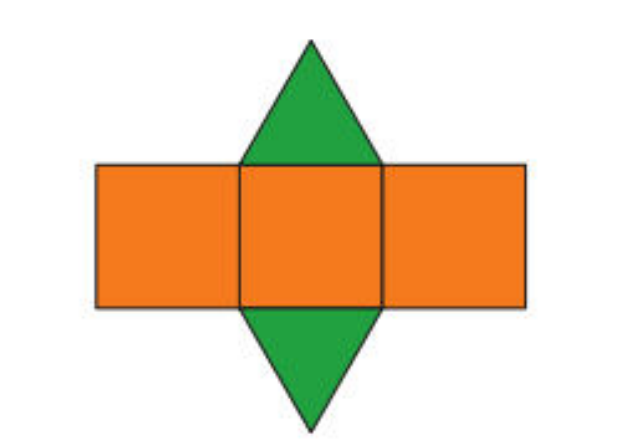
Let’s build with solid shapes.

K.CC.A.3, K.G, K.G.A.1, K.G.A.2, K.G.B.4, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

How Many Do You See: Decompose 5 with Pattern Blocks

How many do you see?

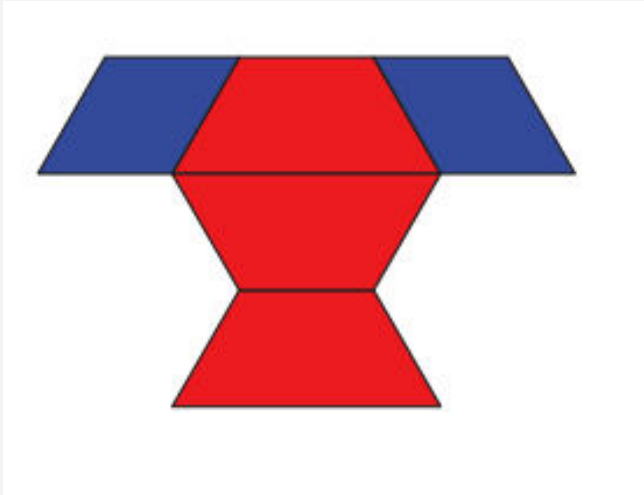


How do you see them?

Warm up

How Many Do You See: Decompose 5 with Pattern Blocks

How many do you see?

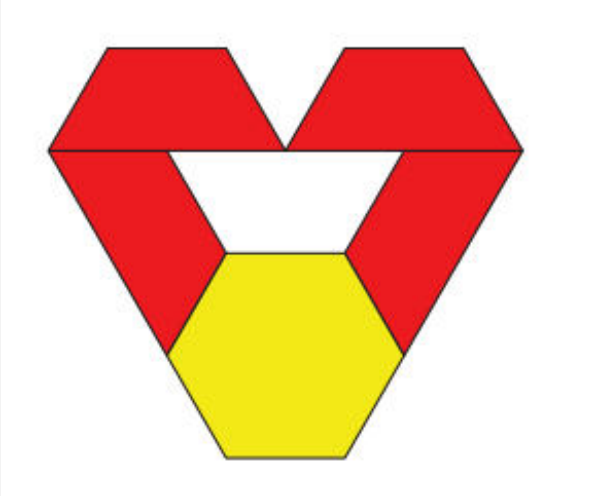


How do you see them?

Warm up

How Many Do You See: Decompose 5 with Pattern Blocks

How many do you see?

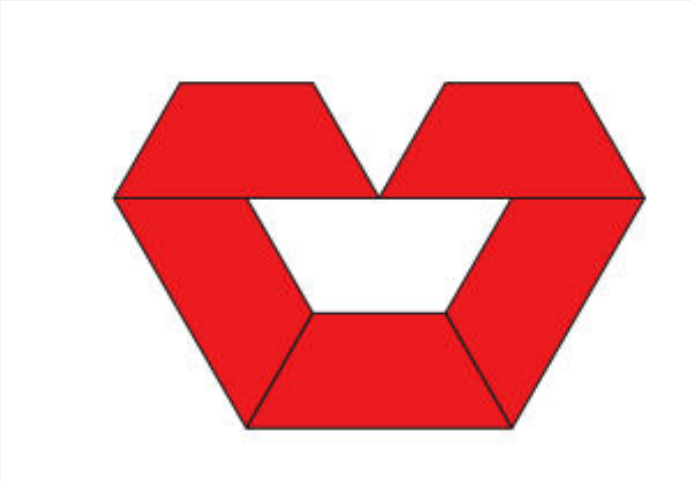


How do you see them?

Warm up

How Many Do You See: Decompose 5 with Pattern Blocks

How many do you see?



How do you see them?

Build with Solid Shapes

Activity #1

Use the solid shapes to build anything you want.

Describe what you built to your partner.

Activity #2

Build My Shape

- Choose who will build first.
- The first partner will use the solid shapes to build something.
- Watch as your partner builds.
- Use the solid shapes to build the same thing as your partner.

Activity #2

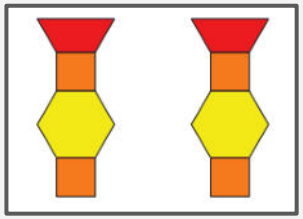
Build My Shape

- This time I am going to show you something that I built, and you and your partner will work together to try to make the same thing.
    - But you will only get to look at what I built for 1 minute, so look closely and try to remember where the shapes go.

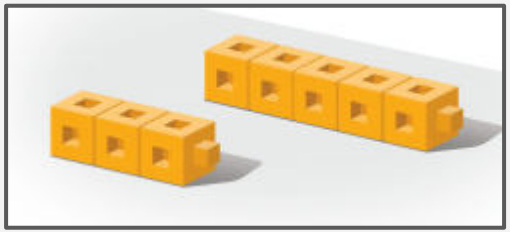
Activity #3

Centers: Choice Time

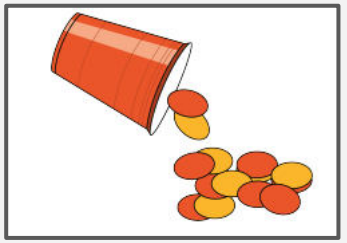
Match Mine, Pattern Blocks



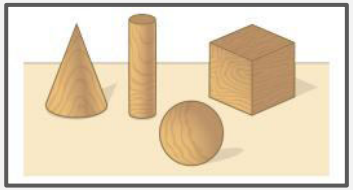
Snap the Cubes, How Many Are Missing?



Shake and Spill, Represent and Cover

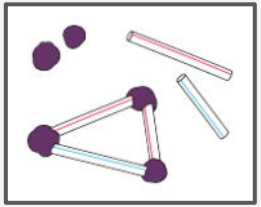


Guess My Shape, Solid Shapes



Geoblocks, Feel and Guess

Build Shapes, Match the Solid Shape



Lesson Synthesis

Today we built with solid shapes.

What is the name of this shape?

Think of something that you could use a cylinder to build.

15

Build and Count with Solid Shapes

Let’s build and count with solid shapes.

K.CC.A.3, K.CC.B.5, K.G, K.G.A.1, K.G.A.2, K.G.B.4, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Warm up

Estimation Exploration: How Many Cubes?

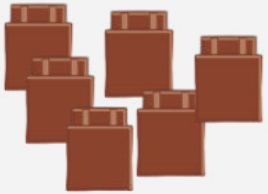
Record an estimate that is:

Too low	About right	Too high

Warm up

Estimation Exploration: How Many Cubes?

Record an estimate that is:



Too low	About right	Too high

Activity #1

A Tall Tower

- Use solid shapes to make the tallest tower you can.
- Compare with your partner. How are your towers the same? How are they different?
- Write a number to show how many solid shapes you used in your tower.
- Did you or your partner use more blocks in their tower?

What Can You Make With These Shapes?

Activity #2

1. 3 cones 4 cubes 5 cylinders

How many shapes did you use all together?

What Can You Make With These Shapes?

Activity #2

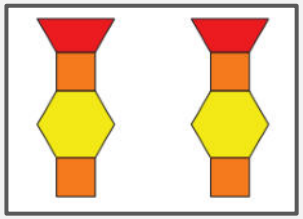
2. 5 cubes 4 cylinders 6 cones

How many shapes did you use all together?

Activity #3

Centers: Choice Time

Match Mine, Pattern Blocks



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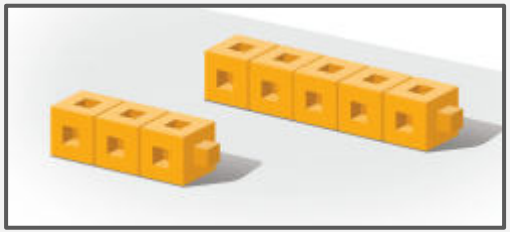

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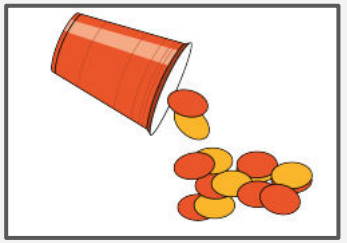
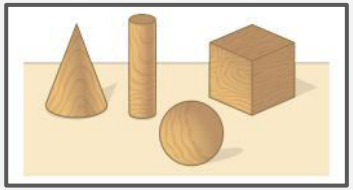
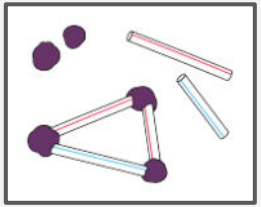


Guess My Shape, Solid Shapes



Geoblocks, Feel and Guess

Build Shapes, Match the Solid Shape



Lesson Synthesis

Today we built with and counted solid shapes.

What ‘how many’ questions can you ask about this tower?

These are ideas of questions that you can ask when you build with shapes in centers.

16

Represent the Classroom with Shapes

Let’s use shapes to make a model of our classroom.

K.CC.A.1, K.CC.A.3, K.G, K.G.A.1, K.G.A.2, K.G.B.4, K.G.B.5, K.G.B.6, K.OA.A.1, K.OA.A.2, K.OA.A.4, K.OA.A.5

Choral Count: Count by 10

Warm up

- Let's count to 100.
- Now let's count to 100 by 10.
- Take turns counting to 100 by 10 with your partner

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Make a Model of the Classroom

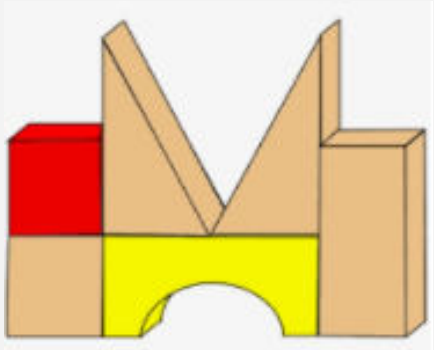
Activity #1

- You are going to use solid shapes to make a model of the classroom.
- Think about which objects you want to represent and how you will represent them.

Add to or Change the Classroom Model

Activity #2

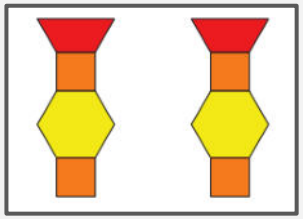
- When a classmate comes to your model, tell them all about your model and what the shapes represent.
- Were there any things that you saw in your classmates' models that gave you an idea for things you want to add to or change about your model?
- Work on your model.



Activity #3

Centers: Choice Time

Match Mine, Pattern Blocks



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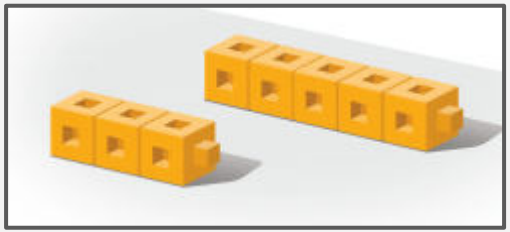

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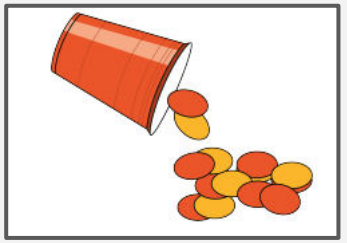

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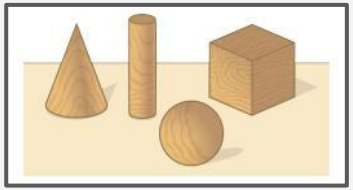
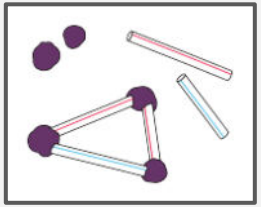


Geoblocks, Feel and Guess

Build Shapes, Match the Solid Shape



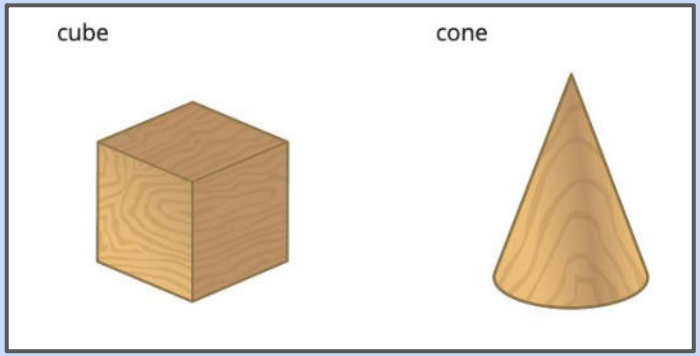
Lesson Synthesis

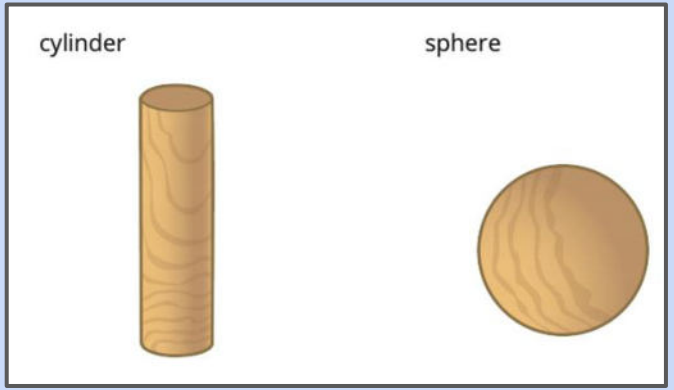
In this unit, we counted, compared, and built with flat and solid shapes.

What is something that you got even better at in this unit? What did you do to help yourself get better at it?

Section Summary

In this section, we described, compared, and created solid shapes.





Section Summary

We found examples of solid shapes in our world.

We used solid shapes to build things and described what we made.