IM K–5 MATH™ v.1

Unit 1

K

Lesson 11
Lesson 12
Lesson 13
Lesson 14
Lesson 15
Lesson 16
Lesson 17

Illustrative Mathematics®
LEARN MATH FOR LIFE

Kendall Hunt

IM K–5 MATH™ v.1

Unit 1
Math in Our World

K

Get Enough

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Kendall Hunt

Learning Goal

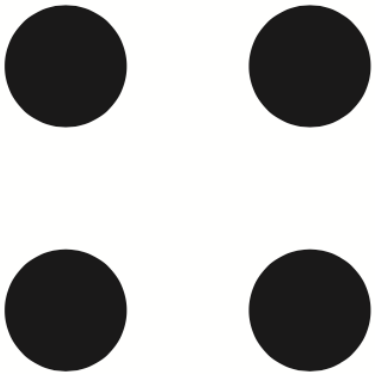
Let’s get enough pencils for everyone.

In a Flash

How Many Do You See?

How many do you see?

How do you see them?



- Use your fingers to show your partner how many dots you see.
- Tell your partner how many dots you see and how you see them.

In a Flash

How Many Do You See?

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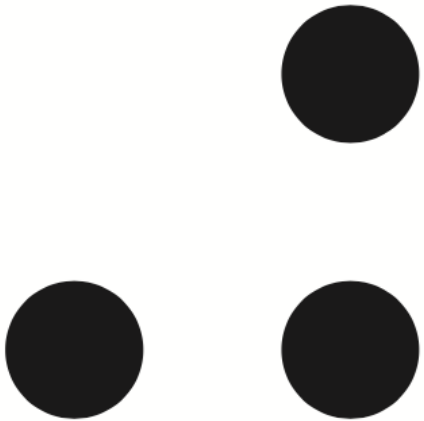
How do you see them?



- Use your fingers to show your partner how many dots you see.
- Tell your partner how many dots you see and how you see them.

Act It Out: Four Little Speckled Frogs (Part 2)

Launch

4 little speckled frogs sat on a speckled log,

eating the most delicious bugs. Yum! Yum!

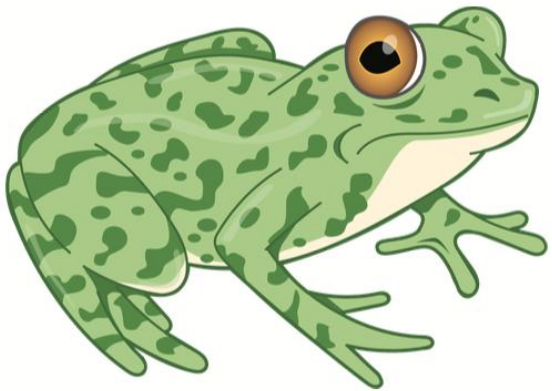
1 jumped into the pool, where it was nice and cool.

Now there are 3 green speckled frogs. Glub! Glub!

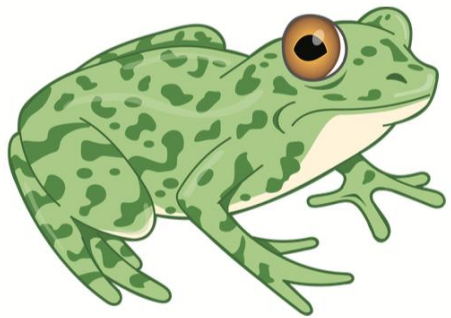
What is the story about?

Let's read the story again.

How can you act out this story?



Discuss your thinking with your partner.



Act It Out: Four Little Speckled Frogs (Part 2)

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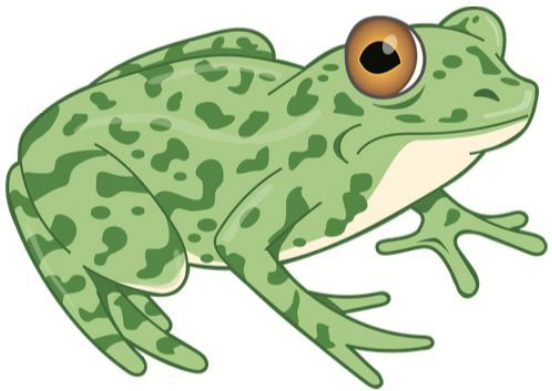
Now there are 3 green speckled frogs. Glub! Glub!

Let's act out the story.



Get Enough

Work together with your group to get enough pencils so that everyone in your group has one pencil.

- How many pencils are in the group you made?
- How many people are at your table?
- What do you notice?

Work with your group to get enough pencils so that each student pictured in your student

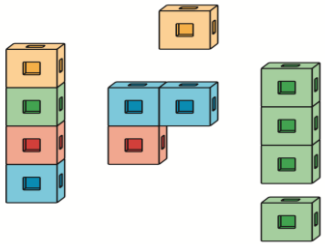
Get Enough

I need to get enough pencils so that each student has one. What should I do?

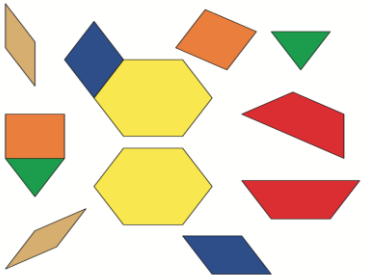
Choose a center.

Geoblocks

Connecting Cubes



Pattern Blocks



Picture Books

Centers: Choice Time

Activity Synthesis

Think of one thing someone did during center time today that helped you with your work.

Get Enough

If this group of students is working with geoblocks during center time, how many blocks do we need so that each student can have one? How do you know?

Now, let's count to 10.

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Unit 1
Math in Our World

K

How Many Are There? (Part 1)

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Learning Goal

Let’s count collections of objects.

How Many of Us Are Here Today?

Questions About Us

- How can we figure out how many of us are here?
- How many of us are here today?
- Did I count the students correctly?

Counting Collections

K

Launch

Look at this collection of objects.

How can we figure out how many objects are in this collection?

Counting Collections

K

Figure out how many objects are in your collection. Use the tools if they are helpful.

Switch collections with a partner. Figure out how many objects are in your new collection.

Counting Collections

Let's watch ____ count a collection.

What do you notice about how they counted?

There are _____ objects in their collection.

Count to 10

K

Launch

I’m going to count to 10.

Count to 10

K

Let’s count to 10 all together.

Let’s count to 10 and clap our hands when we say each number.

Let’s count to 10 and touch the table when we say each number.

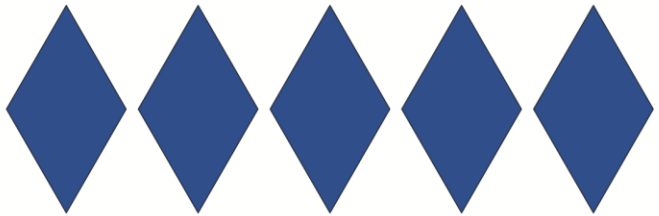
Let’s count to 10 and put up 1 finger when we say each number.

Count to 10

Take turns counting to 10 with your partner. You can clap your hands or touch the table when you say each number. You can also think of your own movement for each number.

What do you notice? What do you wonder?

5



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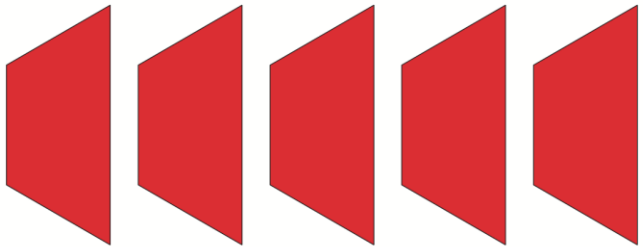
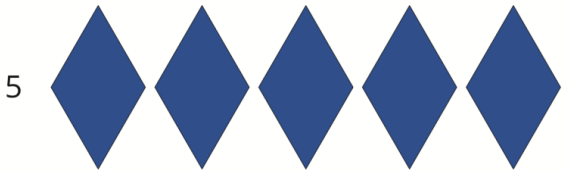


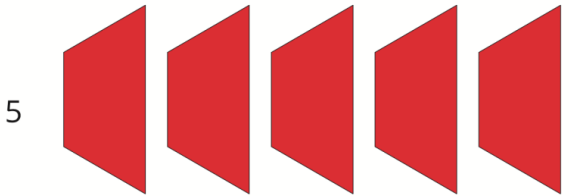
Introduce Pattern Blocks, Get and Build

Launch

This page shows you which pattern blocks you need. Work with your partner to take out all of the pattern blocks that you need.

Now you can use your pattern blocks to create whatever you'd like. You can make a robot or a design or something else.

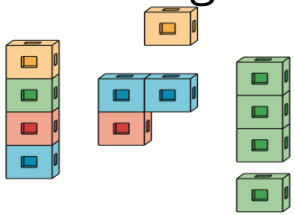




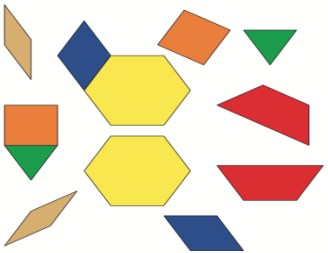
Now you can choose another center. You can also continue playing Pattern Blocks.

Geoblocks

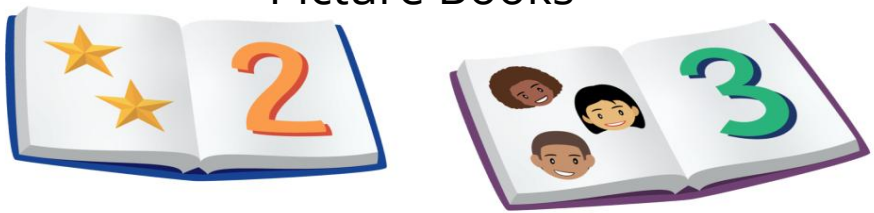
Connecting Cubes



Pattern Blocks



Picture Books



Introduce Pattern Blocks, Get and Build

How did you figure out how many pattern blocks you needed?

How Many Are There? (Part 1)

Today we counted collections of objects. Where do you see people count?

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Unit 1
Math in Our World

K

How Many Are There? (Part 2)

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Learning Goal

Let’s count collections of objects.

Attendance

Questions About Us

We need to figure out how many of us are here.

- How can we make sure that we count each person one time?
- How many of us are here today?
- Did we count everyone one time? How do you know?

Counting Collections

K

Launch

Today you're going to count another collection of objects.

As you're working, think about how to make sure you count each object.

Counting Collections

K

Figure out how many objects are in your collection.

Switch collections with a partner. Figure out how many objects are in your new collection.

Counting Collections

Let's watch ____ count a collection.

What do you notice about how they counted?

There are _____ objects in their collection.

Launch

Let’s practice counting to 10.

Pair Objects and Numbers

Move the objects in your collection into the bucket one at a time.

Move the objects in your collection into the bucket one at a time. Say a number each time you put an object in the bucket.

Pair Objects and Numbers

Activity Synthesis

I'm going to move each object into the bucket. When I move an object, say a number.

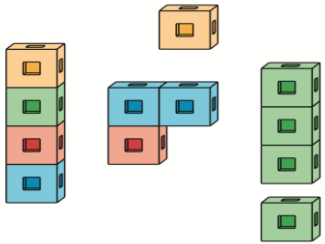
Why do we say one number as we move each object?

When we count, we say one number for each object.

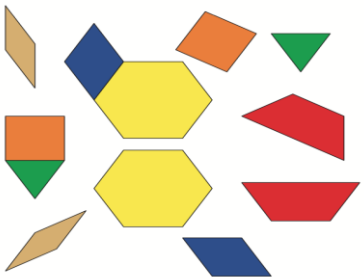
Choose a center.

Geoblocks

Connecting Cubes



Pattern Blocks



Picture Books

Centers: Choice Time

Activity Synthesis

When did you see a partner count during centers today?

How Many Are There? (Part 2)

Today we counted collections of objects. What is something that you can count at home?

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Unit 1
Math in Our World

K

Answer “How Many” Questions

Learning Goal

Let’s count to figure out how many objects are in our collections.

Represent Attendance (Part 1)

Questions About Us

- How can we show how many of us are here today?
- How can we figure out how many of us are here?
- How many of us are here today?
- What did we do to show each student in our class?

Counting Collections: How Many?

Figure out how many objects are in your collection.

Switch collections with a partner. Figure out how many objects are in your new collection.

Ask your partner “How many objects are in your collection?”

Counting Collections: How Many?

Let's watch ____ count a collection.

How many objects are in _____'s collection? How do you know?

There are _____ objects in their collection.

Egg Carton Counting

Launch

How can the egg carton help us make sure that we say one number for each object while we count?

Egg Carton Counting

K

Use the egg carton to figure out how many objects are in your collection.

Egg Carton Counting

Activity Synthesis

Take turns counting your collection with your partner. As you place each object in the egg carton, your partner says one number.

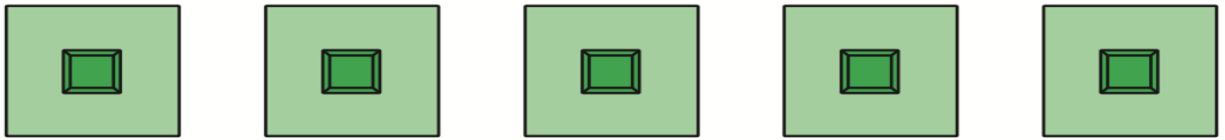
Introduce Connecting Cubes, Get and Build

Launch

What do you notice? What do you wonder?

4

5

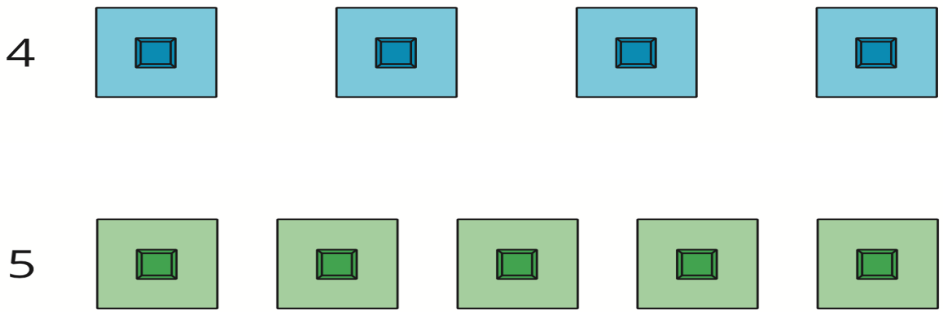


Introduce Connecting Cubes, Get and Build

Launch

This page shows me which connecting cubes I need. Work with your partner to take out all of the connecting cubes that you need.

Now you can use your connecting cubes to create whatever you'd like. You can make an animal or a tower or something else.



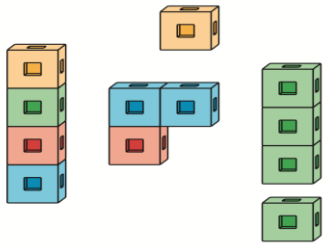
Unit 1 • Lesson 14 • Activity 3

Introduce Connecting Cubes, Get and Build

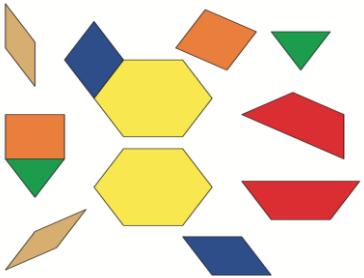
Now you can choose another center. You can also choose to continue working with Connecting Cubes.

Geoblocks

Connecting Cubes



Pattern Blocks



Picture Books

Introduce Connecting Cubes, Get and Build

Activity Synthesis

Let's look at what two people built with connecting cubes.

Tell your partner what is the same about what _____ and _____ made.

Answer “How Many” Questions

Today we counted collections to figure out how many objects there are. Ask your partner a question about our classroom that starts with “how many”.

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Unit 1
Math in Our World

K

Explain How You Counted

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Learning Goal

Let’s count collections of objects and tell our partners how we counted.

Represent Attendance (Part 2)

Questions About Us

- How can we show how many of us are here today?
- How can we figure out how many of us are here?
- How many of us are here today?
- What did we do to show each student in our class?

Counting Collections: Share How You Counted

K

Figure out how many objects are in your collection.

Switch collections with a partner. Figure out how many objects are in your new collection.

Tell your partner how many objects are in your collection. Show them how you counted the objects.

Counting Collections: Share How You Counted

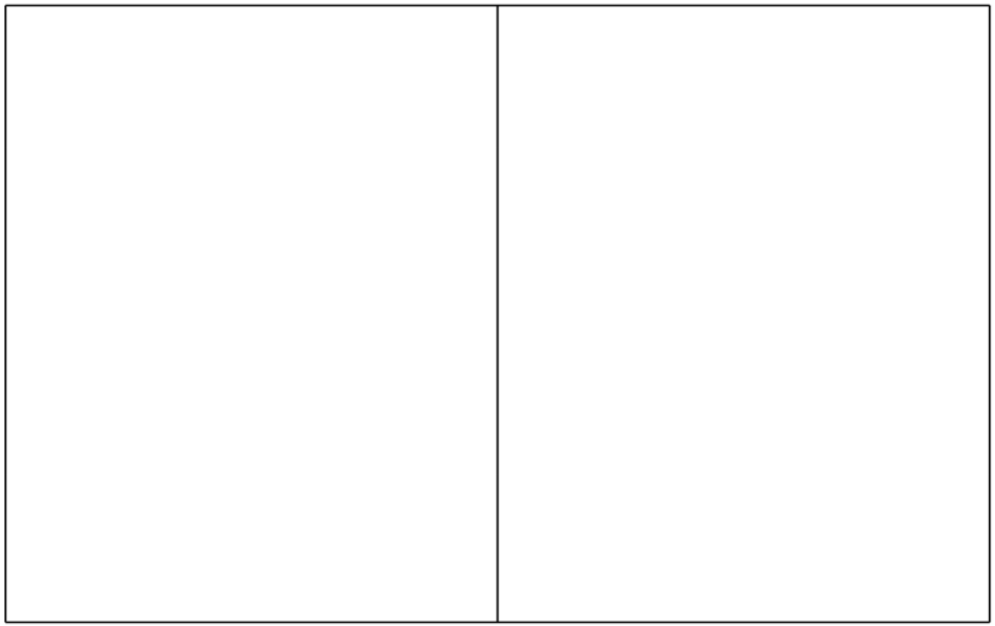
Activity Synthesis

- How did the 5-frame help you count your collection of objects?
- How did the counting mat help you count your collection of objects?

Use a Counting Mat to Keep Track

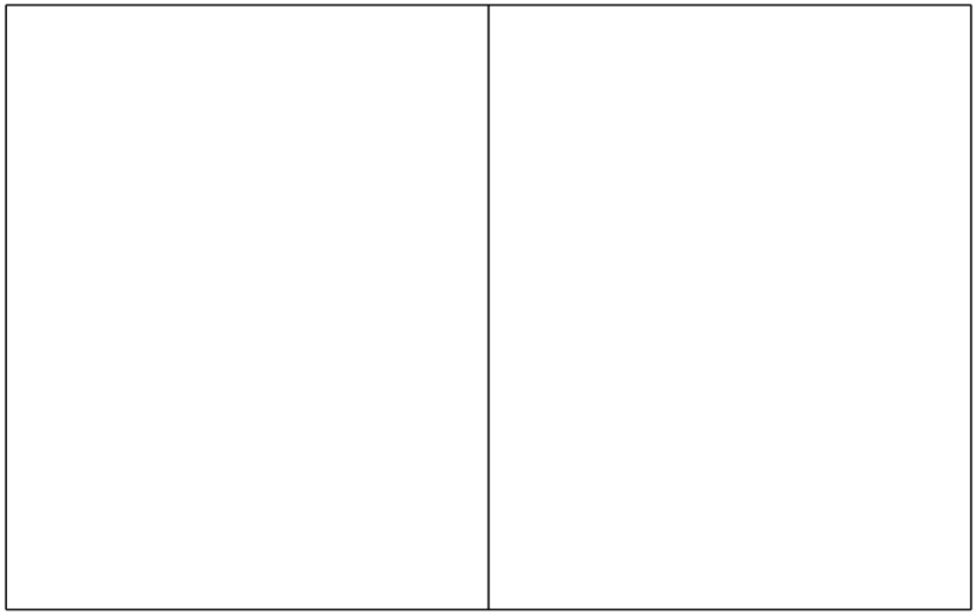
Launch

How can the counting mat help us make sure that we count each object 1 time?



Use a Counting Mat to Keep Track

Use the counting mat to figure out how many objects are in your collection.



Use a Counting Mat to Keep Track

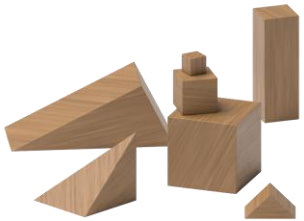
- Which objects do I still need to count?
- Which objects did I already count?
- How do you know?

Centers: Choice Time

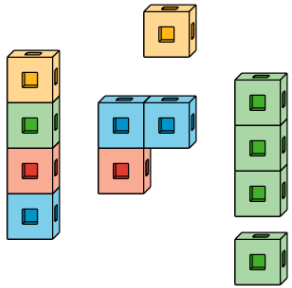
K

Choose a center.

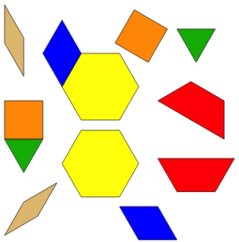
Geoblocks



Connecting Cubes



Pattern Blocks



Picture Books

Centers: Choice Time

Activity Synthesis

Tell us about a time when something was challenging for you during centers. What did you do?

Explain How You Counted

Today we counted collections of objects.

- Did you use any math tools to help you count?
- How did they help you count?

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Unit 1
Math in Our World

K

Represent Our Collections

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Learning Goal

Let’s count collections of objects and show how we counted.

Attendance Display

Questions About Us

- How can we use the 5-frames to show how many of us are here?
- How can we figure out how many of us are here?
- How many of us are here today?
- What do you notice about the different ways that we showed how many of us are here?

Counting Collections: Show How Many

Launch

Today you're going to count another collection of objects.

During Questions About Us, we showed how many of us are here today. As you're counting your collection, think about how you can show how you counted your collection.

Counting Collections: Show How Many

Figure out how many objects are in your collection.

Switch collections with a partner. Figure out how many objects are in your new collection.

Tell your partner how many objects are in your collection. Show them how you counted the objects.

Show how you counted your collection. Show your thinking using objects, drawings, numbers, or words.

Counting Collections: Show How Many

- What is the same about how they each counted their collections?
- What is different about how they each showed how they counted?

There are _____ objects in their collection.

Answer How Many Questions

K

Figure out how many objects are in your collection.

How many objects are in your collection? Tell your partner how many objects are in your collection without counting the objects again.

Answer How Many Questions

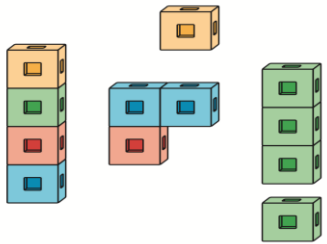
Let’s count to figure out how many objects are in this collection.

How many objects are in the collection?

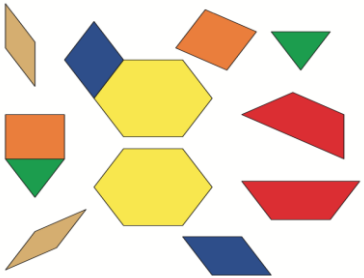
Choose a center.

Geoblocks

Connecting Cubes



Pattern Blocks



Picture Books

Centers: Choice Time

Activity Synthesis

We have been working with pattern blocks, connecting cubes, geoblocks, and picture books throughout the unit. Which center is your favorite? Why?

Represent Our Collections

Today we counted collections to figure out how many objects there are. Ask your partner a question about our classroom that starts with “how many”.

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Unit 1
Math in Our World

K

Connecting Cube Sculptures

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Learning Goal

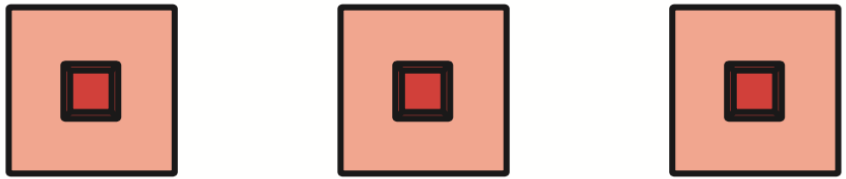
Let’s build with connecting cubes and figure out how many we have.

Connecting Cube Flash

How Many Do You See?

How many do you see?

How do you see them?



- Use your fingers to show your partner how many cubes you see.
- Tell your partner how many cubes you see and how you see them.

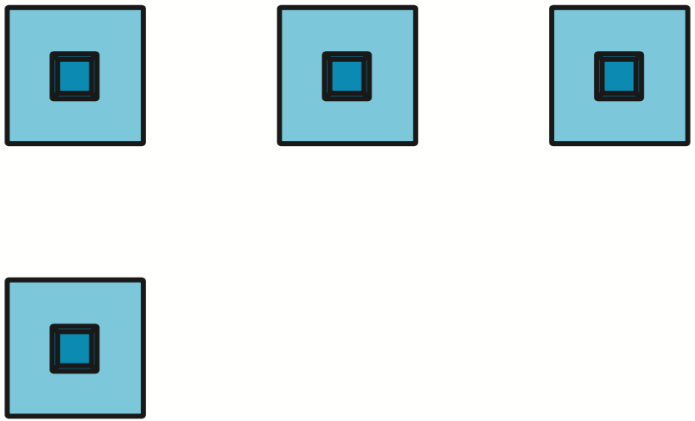
Connecting Cube Flash

K

How Many Do You See?

How many do you see?

How do you see them?



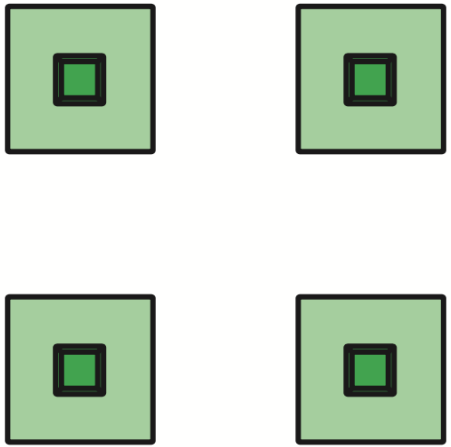
- Use your fingers to show your partner how many cubes you see.
- Tell your partner how many cubes you see and how you see them.

Connecting Cube Flash

How Many Do You See?

How many do you see?

How do you see them?



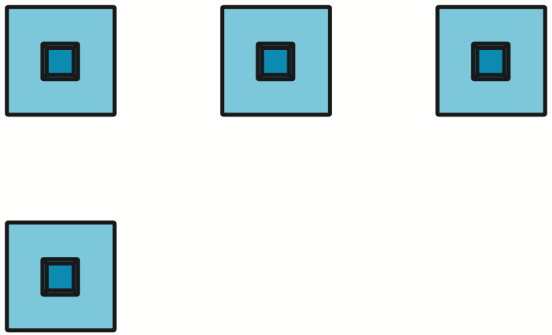
- Use your fingers to show your partner how many cubes you see.
- Tell your partner how many cubes you see and how you see them.

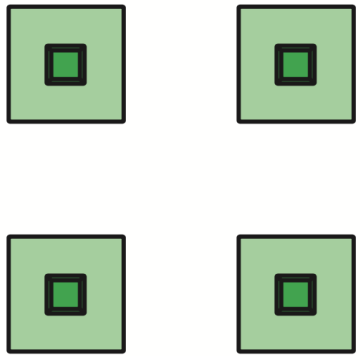
Connecting Cube Flash

K

How Many Do You See?

What is the same about these groups of connecting cubes? What is different?





There are 4 connecting cubes in this group. There are also 4 connecting cubes in this group.

Count Cubes

K

Figure out how many cubes are in your collection. Show how you counted your collection. Show your thinking using objects, drawings, numbers, or words.

How many cubes are in your collection? Tell your partner how many cubes are in your collection without counting them again.

Count Cubes

- How many cubes are in _____’s collection?
- How do you know?

When we counted, the last number we said was _____.
That tells us that there are _____ objects in our collection.

Connecting Cube Creations

K

Use all of your connecting cubes to create whatever you'd like.

Tell your group what you made and how many cubes you used without counting them again.

Tell your partner what is the same about what _____ and _____ made.

Connecting Cube Sculptures

What are some questions we can ask about what your classmates made?