GK-M3-Lesson 1

Draw 2 more trees that are shorter than these trees.
Count how many trees you have now.
Write the number in the box.

On the back of your paper, draw something that is shorter than the refrigerator.

My kitty stands beside the refrigerator. The refrigerator is so tall! Kitty is much shorter than the refrigerator.
GK-M3-Lesson 2

Using the 1-foot piece of string from class, find three items at home that are shorter than your piece of string and three items that are longer than your piece of string. Draw a picture of those objects on the chart. Try to find at least one thing that is about the same length as your string, and draw a picture of it on the back.

<table>
<thead>
<tr>
<th>Shorter than the string</th>
<th>Longer than the string</th>
</tr>
</thead>
<tbody>
<tr>
<td>My building block, my truck, and Sam’s sippy cup are all shorter than the string.</td>
<td>I compare the string to things in my room. My bed, my rug, and my jump rope are longer than the string!</td>
</tr>
</tbody>
</table>
GK-M3-Lesson 3

Take out a new crayon. Use a red crayon to circle objects with lengths shorter than the crayon. Use a blue crayon to circle objects with lengths longer than the crayon.

I can use *longer than* and *shorter than* as I compare lengths.

I compare the length of my crayon with the length of this shape. My crayon is shorter.

Lesson 3: Make a series of *longer than* and *shorter than* comparisons.
GK-M3-Lesson 4

Use a red crayon to circle the sticks that are shorter than the 5-stick.

Use a blue crayon to circle the sticks that are longer than the 5-stick.

I count 5 cubes on this 5-stick.

This stick has 3 cubes. It is shorter than the 5-stick.

I can find sticks that are longer than the 5-stick. I notice they are long and have 2 colors.

Lesson 4: Compare the length of linking cube sticks to a 5-stick.
GK-M3-Lesson 5

Circle the stick that is shorter than the other.

This 6-stick is 5 and 1 more.

My \( \frac{4}{6} \)-stick is shorter than my \( \frac{6}{6} \)-stick.

My \( \frac{6}{6} \)-stick is longer than my \( \frac{4}{6} \)-stick.

I count the cubes in this stick. There are four!

I can compare using my new math words shorter than and longer than.

Draw a stick that is between a 3-stick and a 5-stick.

Draw a stick that is longer than your new stick.

My 7-stick is longer than my 4-stick!

Draw a stick that is shorter than your new stick.
GK-M3-Lesson 6

Color the cubes to show the length of the object.

The watermelon is shorter than the 8-stick.

I compare the piece of paper to the stick. The paper is about the same length as 4 cubes.
GK-M3-Lesson 7

These boxes represent cubes.

![Diagram of boxes representing cubes]

This is a 5-stick. I can compare to see that 1 and 4 is the same as 5.

Color 1 cube green. Color 4 cubes red.
Together, my green 1-stick and red 4-stick are the same length as ____ cubes.

I put the 3-stick and the 2-stick together to make a 5-stick!

Color 3 cubes yellow. Color 2 cubes blue.

How many cubes did you color? 5
Together, my 3 cubes and 2 cubes are the same length as 5 cubes.
GK-M3-Lesson 8

Draw an object that would be heavier than the one in the picture.

I'd rather carry a pencil in my backpack than a heavy dictionary. The pencil is much lighter!

It's easy for me to pick up the notebook. But, I can't pick up Daddy. He's too heavy.
GK-M3-Lesson 9

Draw something inside the box that is heavier than the object on the balance.

A bowling ball is heavier than a shoe. It takes so many muscles to pick up a heavy bowling ball.

Draw something lighter than the object on the balance.

An orange is lighter than a pineapple. It’s easier to carry. It weighs so little, I can pick up more than one. I can even throw it!
They are the same weight. The balance is even.

They are the same weight. The balance is even.

I'm curious! I wonder if the crayon really is as heavy as 6 pennies? I can use a balance scale to test this.

Draw in the pennies so that the crayon is as heavy as 6 pennies.
GK-M3-Lesson 11

Draw linking cubes so each side weighs the same.

I count 6 cubes in this set.

I draw 1 more cube to balance the weight. Both sets weigh the same!

Wow! 10 cubes are heavy! I draw the same number of cubes on the opposite side.

Lesson 11: Observe conservation of weight on the balance scale.
GK-M3-Lesson 12

I can compare the weight of the apple with the weights of sets of different objects.

The apple is as heavy as 3 cupcakes.

This is the same apple!

It takes more cupcakes to balance the weight of the apple than sneakers.

The apple is as heavy as 2 sneakers.

Lesson 12: Compare the weight of an object with sets of different objects on a balance scale.
GK-M3-Lesson 13

Each rectangle shows 8 items. Circle two different sets within each. The two sets represent the two parts that make up the 8 objects.

I know that a set of 3 and a set of 5 make 8, and a set of 4 and a set of 4 make 8.
GK-M3-Lesson 14

Within each rectangle, make one set of 8 objects.

There are 9 clouds. I circle 8 of them. It's like 8 is hiding inside of 9.

Here I count 10, and I circle 8 of them.
GK-M3-Lesson 15

Circle 2 sets within each set of 8.

I know that 4 and 4 make 8, and 2 and 6 make 8.
GK-M3-Lesson 16

Cover the shape with beans. Count how many, and write the number in the box.

I can fill the circle with beans and then count to see how many fit. I think it will be a lot because the beans are pretty small!

We've only learned to write numbers to 10 so far. So, I asked a grown up to help me write 15.
GK-M3-Lesson 17

Draw straight lines with your ruler to see if there are enough flowers for the butterflies.

I can draw a line to connect each butterfly with one flower.

Then I keep going to see if there are enough flowers for every butterfly.

Each butterfly gets one flower! That means there are enough!

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Lesson 17: Compare to find if there are enough.
You have 3 dog bones. Draw enough bowls so you can put 1 bone in each bowl.

I can draw 1 bowl for each bone. To help me figure it out, I drew the bones first. There are 3 bones and 3 bowls.
GK-M3-Lesson 18

Draw straight lines with your ruler to see if there are enough hats for the scarves.

There are not enough hats!

There are more scarves than hats!

Are there more or ?

There were 2 scarves left over!

Write the number of

These sets are not the same!
There are 4 hats and 6 scarves!
Write the number of apples: 6

Write the number of ants: 6

Are there the same number of apples as ants? Circle Yes or No.

There are enough apples for each ant!

First I counted 6 apples. Then I counted 6 ants. These sets are the same!
GK-M3-Lesson 19

Draw another bug so there are the same number of bugs as leaves.

I can draw one more bug so there are the same number of bugs as leaves!

In the box below, draw 6 hearts.

Draw triangles so there are fewer triangles than hearts.

Draw circles so there are the same number of circles as hearts.

I know I have fewer triangles than hearts because I drew 6 hearts, and I only drew 3 triangles!
GK-M3-Lesson 20

On the first chain, color the first 4 beads orange.
On the next chain, color more than 4 beads purple.
How many beads did you color purple? Write the number in the box.

I can make a row with more than 4! First I make a row the same size, and then I just color some more to make it longer.

I know that 7 is more than 4 because the purple row of beads is longer!

7 purple beads is more than 4.

Draw a chain with more than 5 beads but fewer than 9 beads.

I start by making 5 beads, and then I add more, one at a time. Before I get to 9, I stop. I stopped at 7. 7 is more than 5 but still fewer than 9.
GK-M3-Lesson 21

Which has more? The  
Circle the set that has more.

The set of ducks has more. I know because I count 6 ducks and only 4 bunnies. 6 is more than 4.

Draw a set of 3 kittens. Then draw some puppies. Are there fewer kittens or fewer puppies?

I know there are fewer puppies. I draw the 3 kittens, and then when I draw the puppies, I stop at 2.
GK-M3-Lesson 22

Count the fish. In the next box, draw the same number of bowls as fish.

I count 5 fish. So, I need to draw 5 bowls.

There are the same number of bowls as fish!
GK-M3-Lesson 23

How many snails?

There are 4 snails!

Draw a leaf for every snail and one more leaf.

How many leaves? 5

I drew 4 leaves, and then I drew 1 more. 1 more than 4 is 5.
GK-M3-Lesson 24

Count the set of objects, and write how many in the box.

Draw a set of triangles that has 1 less, and write how many in the box. As you work, use your math words less than.

I count 8 kites. Let me think.
8. 1 less is 7. So, I draw 7 triangles.

7 is less than 8.
GK-M3-Lesson 25

Count the objects in each line. Write how many in the box. Then, fill in the blanks below. Use the words *more than* to compare the numbers.

I can see that there is 1 more cat! Then I counted 7 pandas and 8 cats.

8 is more than 7.

8 is more than 7.

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Lesson 25: Match and count to compare a number of objects. State which quantity is more.

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GK-M3-Lesson 26

Count the objects in each line. Write how many in the box. Then, fill in the blanks below. Say your words *less than* out loud as you work.

There are not enough baskets for each ball of yarn to have a partner!

4 is less than 6.

4 is less than 6. If I tried to put each ball of yarn into a basket, I would have some left over!
GK-M3-Lesson 27

Draw a tower with more cubes.

4 is more than 3.
3 is less than 4.

I can make a tower with more cubes. I just make it taller! The first tower has 3 cubes, so I made a tower with 1 more. My tower has 4 cubes.

Draw a tower with fewer cubes.

6 is more than 3.
3 is less than 6.

I can make a tower with fewer cubes. I just make it shorter! The first tower has 6 cubes, so I made mine with only 3 cubes. 3 is less than 6.
Visualize the number in Set A and Set B. Write the number in the sentences.

Set A: 6
Set B: 3

6 is more than 3.
3 is less than 6.

I can see 6 in my head. 6 is more than 1 hand. 3 is less than 1 hand. 6 is more than 3.
GK-M3-Lesson 29

Draw a line from each container to the word that describes the amount of liquid the container is holding.

**Full**
- I see some liquid, but it is not to the top. So, this bottle is not full.

**Not Full**
- I know that when there is nothing in a container, it is empty.

**Empty**
- I know that when the liquid is to the top, it is full. Coffee is hot. If the mug were full to the brim, you might burn your mouth!
Color 5 apples.

There are 10 apples in all. I color 5 of them. I can count the rest to see how many more to make 10.

I colored 5 apples.

I need to color 5 more to make 10.

Lesson 30: Use balls of clay of equal weights to make sculptures.
GK-M3-Lesson 31

Read the following directions to your child to make a house:

- Draw a square as wide as a fork.
- Draw a triangle on top of the square as tall as your pinky for the roof.
- Draw a rectangle as long as your thumb for the door.
- Draw 2 square windows each as long as a fingernail.

Hmm... let me look at my pinky to see how tall the roof should be. Yes, that looks about right!
GK-M3-Lesson 32

Circle groups of dots. Then, fill in the blanks to make a number sentence.

3 dots are circled.
The other 3 are not.
I count 6 dots in all.

3 and 3 is 6.

Make your own 6-dot card. Circle some dots, and then say, “_____ and _____ is ______.”

1 and 5 is 6.