

INTRODUCTION TO ADDITION



Seeing Our Creator in Mathematics

Welcome to *Exploring Creation with Mathematics, Level 1!* You are about to start out on a fun and exciting journey. This book is filled with activities, projects, and games that will teach you about numbers. You'll be learning to add, subtract, graph data, and explore shapes. As you complete each unit, you'll see how math is connected to science, business, art, and the world around you.



Skills Practice for Unit One:

Writing and
ordering the
numbers 0–20
(see answer key
for more details).

0

1 2 3

4 5 6

7 8 9

10 11 12

13 14 15

16 17 18

19 20



So, learning math is like going on a hike in a forest. This textbook will be your trail guide. And what an amazing journey you are taking! As you learn more about mathematics this year, you will also be learning more about God. When God created the whole world, He also created math. He made a mathematical world to show us His faithfulness, His beauty, and even His love for us. The most exciting thing about exploring creation with mathematics is that it teaches you more about our Creator.

If your life's journey leads you to become a mathematician, someone who studies math for a living, your journey will never stop amazing you. You will have an incredible understanding of creation along with one huge adventure to share! Even if you keep studying math until you grow up and have kids of your own, you still would have new things to learn. But God knows it all right now. He fully understands math because He created it. And He has promised to help you.

**And my God will supply all your needs according to
His riches in glory in Christ Jesus.**

Philippians 4:19

The God who created the whole universe, including math, promises to be with you. He knows that you started this book today and that you are reading this page right now. Take a moment to pray and ask Him to join you on your journey. That's a prayer He loves to answer.

THE NUMBERS 1–10

1	2	3	4	5	6	7	8	9	10
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In this chapter, you will review how to:

- * Identify, write, and use the numbers 1–10.
- * Match a numeral to the correct number of objects.
- * Complete sequences and put the numbers 1–10 in order.



PIPE CLEANER NUMBERS

You will need:

- Eleven pipe cleaners
- Fifty-five beads

You Will Do:

1. String a pipe cleaner with 1 bead. String the next pipe cleaner with 2 beads and so on for nine pipe cleaners. For the numeral 10, string 5 beads on each of two pipe cleaners.
2. Bend the pipe cleaner into the shape of each one of the numbers below. For the number 10, place 5 beads on the one and 5 beads on the zero.



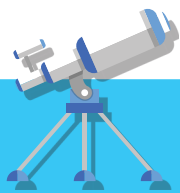
1 2 3 4 5 6 7 8 9 10

Writing the Numbers 1–10

The symbols we use to represent numbers—like the ones above—are called **numerals**.

We also use word names to talk about numbers. For example, the numerals 1, 4 and 7 have the word names one, four, and seven.

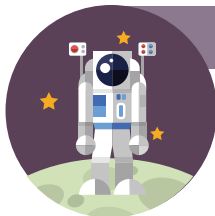
We use numbers to talk about different amounts. Remember that each number matches with a certain amount. For example, look at the different ways to represent the number 4 below.



Numeral: the symbol we use to represent a number.

Representing a Number With a:

Numeral	Word Name	Group of Objects
4	four	



Practice

Trace the numerals and then practice writing them on your own. Be sure to also notice the number of objects and word name that go with each number.



one

Tracing practice for the numeral 1. It shows three dashed '1's on a three-line grid. Each '1' has a red dot at the top and a red arrow pointing downwards. To the right, there are three empty '1' shapes on the same grid for independent practice.



two

Tracing practice for the numeral 2. It shows three dashed '2's on a three-line grid. Each '2' has a red dot at the top left and a red arrow pointing up and to the right. To the right, there are three empty '2' shapes on the same grid for independent practice.



three

Tracing practice for the numeral 3. It shows three dashed '3's on a three-line grid. Each '3' has a red dot at the top left and a red arrow pointing up and to the right. To the right, there are three empty '3' shapes on the same grid for independent practice.



four

Tracing practice for the numeral 4. It shows three dashed '4's on a three-line grid. Each '4' has a red dot at the top left and a red arrow pointing downwards. To the right, there are three empty '4' shapes on the same grid for independent practice.

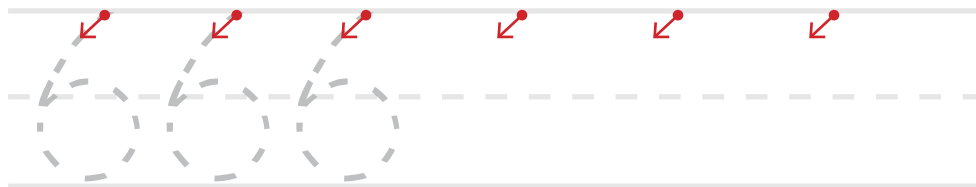


five

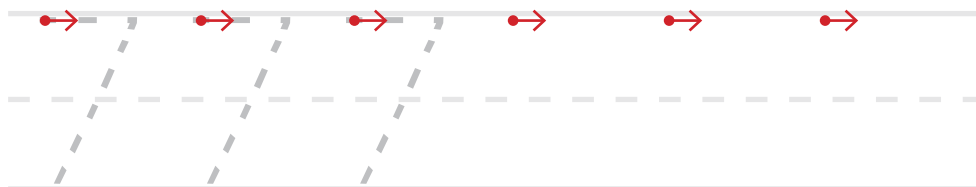
Tracing practice for the numeral 5. It shows three dashed '5's on a three-line grid. Each '5' has a red dot at the top left and a red arrow pointing to the left. To the right, there are three empty '5' shapes on the same grid for independent practice.



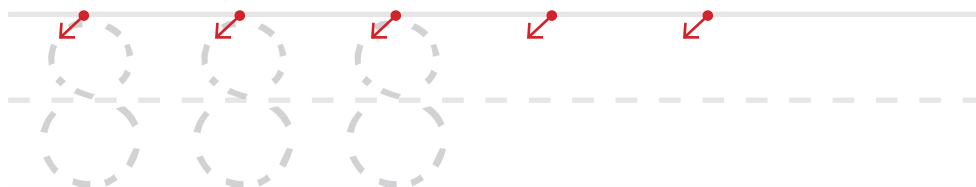
six



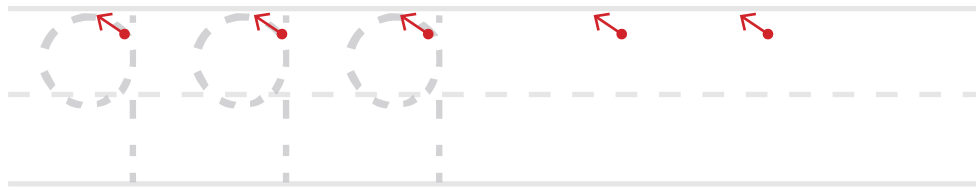
seven



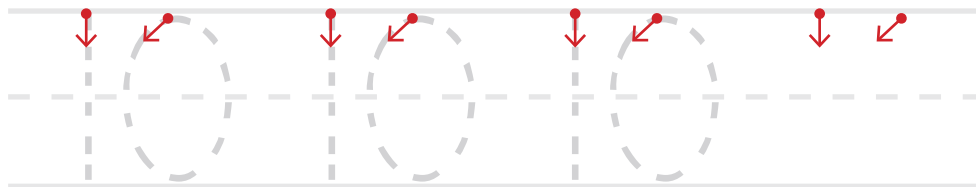
eight



nine



ten





Identifying and Using the Numbers 1-10

In the last lesson, we practiced writing the numerals 1-10. In this lesson, we're going to match numerals to the correct amounts. To do this, we will use our counting skills.

Look at the chart below and study the numerals, word names, and groups of objects. Review them with your parent. Then, fill in the answers to the questions below.

1
one

6
six

2
two

7
seven

3
three

8
eight

4
four

9
nine

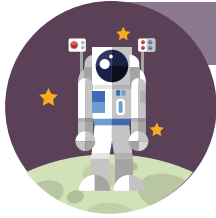
5
five

10
ten

_____ Which number is the same as your age?

_____ Which number is the same as the amount of people in your family?

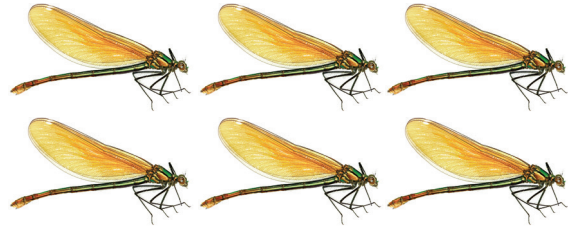
_____ Which number is your favorite and why?



Practice

Write the correct numeral below each group of bugs.



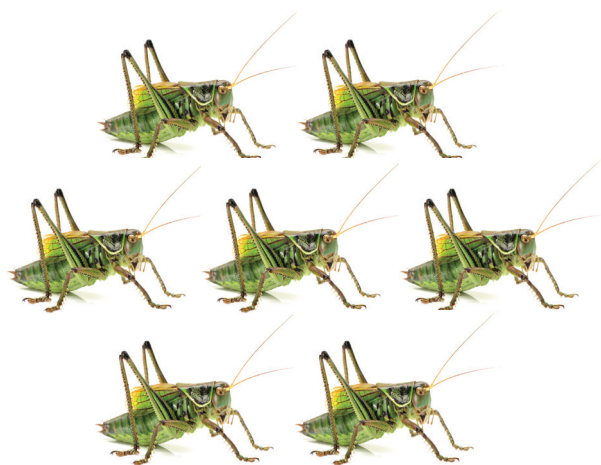






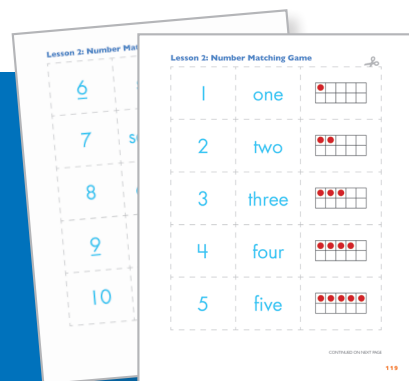






Number Matching Game

Tear out the Lesson 2: Number Matching Game from the back of the answer key. Cut out each card. Mix them up. Practice matching the numeral, the word name, and the ten frames.





LINE THEM UP!

You will need:

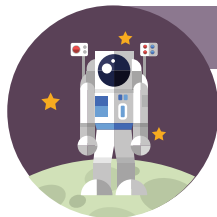
- Ten mini cups
- A black marker
- Beans, Goldfish® crackers, or any other small object



You Will Do:

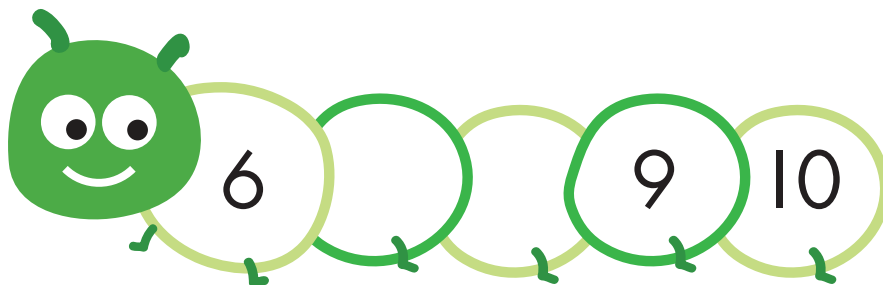
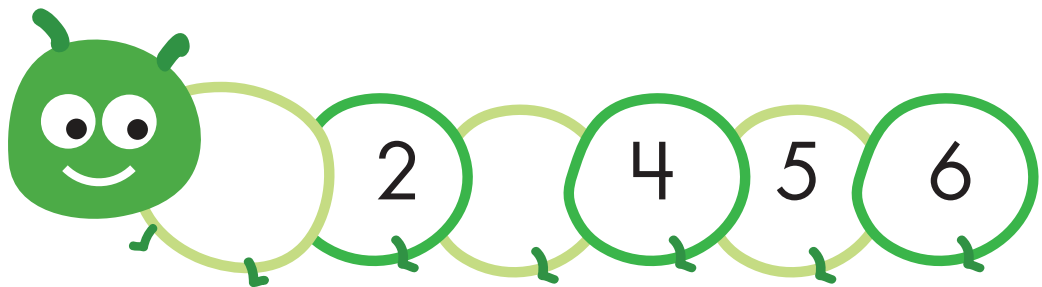
1. Ask an adult to label each cup with the numerals 1–10.
2. Fill each cup with the correct number of objects.
3. Scramble the cups and then line them up in order. Repeat until you can quickly do this without mistakes.
4. Practice unscrambling smaller groups of cups that don't start with one. For instance, your parent might have you practice with the numbers 4, 5, 6, 7, and 8.

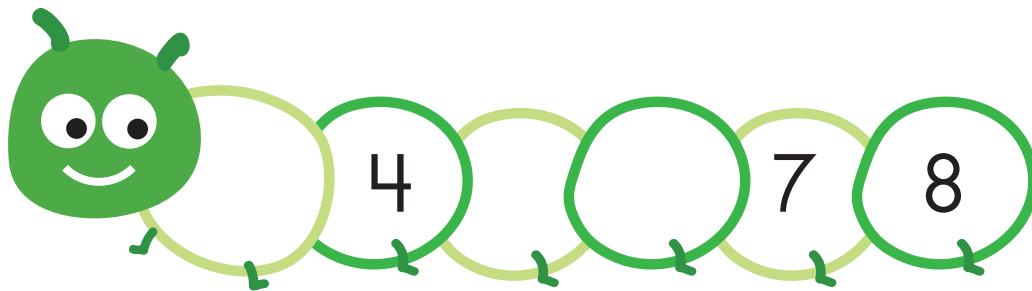
Putting Numbers in Order



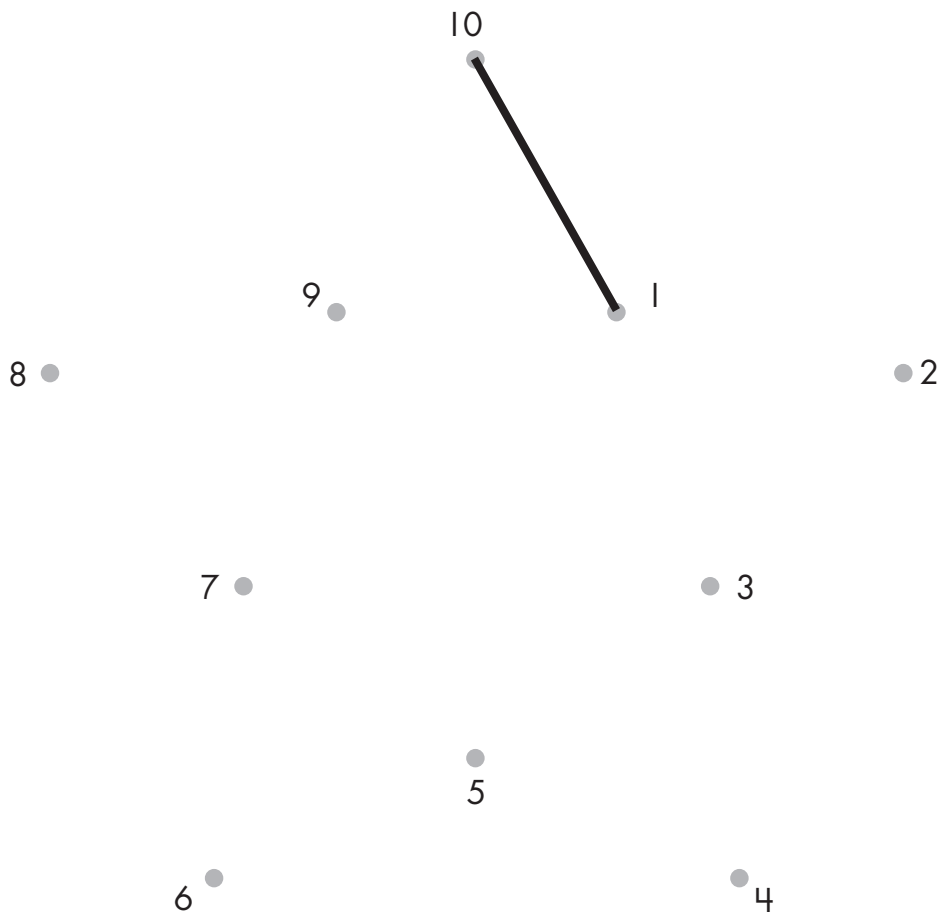
Practice

Fill in each caterpillar with the missing numerals.





Starting with one, connect the dots in order.
Then color your picture.



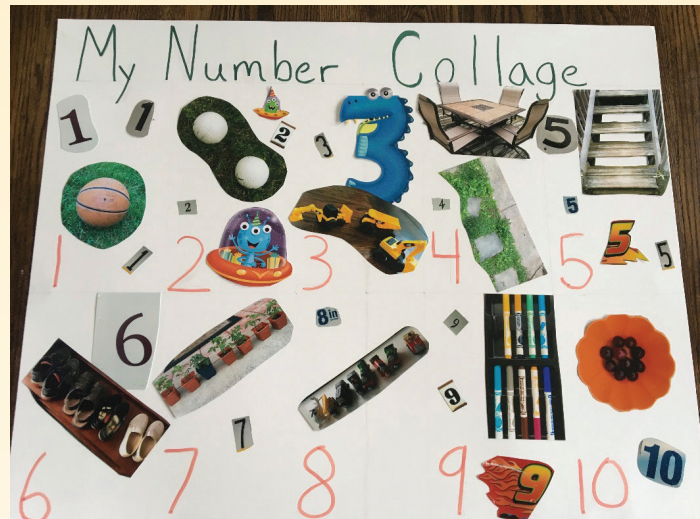


NUMBER COLLAGE PROJECT

We are going to make a collage to show off your new knowledge of the numbers 1–10. A collage is made by mixing many pictures together.

You will need:

- Scissors
- Poster board
- Magazines or phone and printer access
- Ruler
- Markers
- Glue or tape



You will do:

STEP ONE:

To start, you need to find examples of the numerals 1–10. Look in magazines or use a phone and take pictures of numerals around you. If you are having trouble, try going to a store or walking around your neighborhood. Numerals might pop up where you least expect to see them.



STEP TWO:

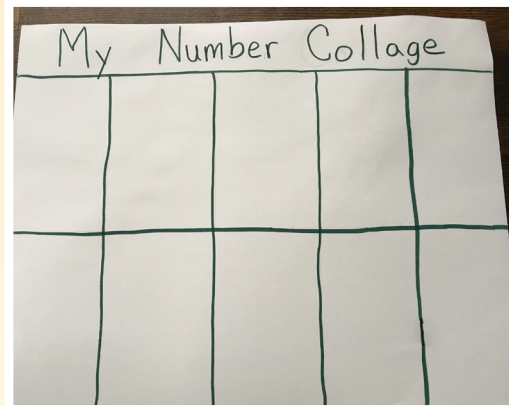
Now find groups of objects that match the numbers 1–10. It might be a picture of 5 cookies that you cut out of a grocery store ad. Or maybe you could take a picture of 3 toy construction vehicles. How many steps are there leading up to your deck? These are all examples of numbers.





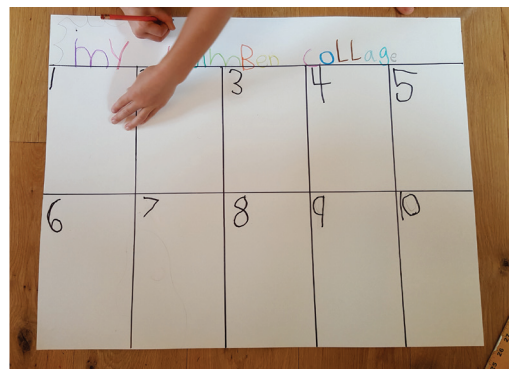
STEP THREE:

Cut out or print all your pictures. Match the numerals with the pictures of objects. If you found a numeral or a group of objects representing a number more than once, that's great. Just put all your pictures for the same number together.



STEP FOUR:

Write the title "My Number Collage" on the top of your poster board. Divide the lower section into 2 rows. Now draw 4 vertical lines, making 10 sections.



STEP FIVE:

Use a marker to label each section with a numeral. You can have an adult sketch the numeral in pencil first so you can trace it.

STEP SIX:

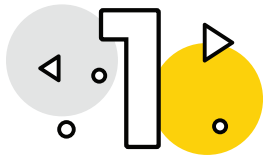
Glue or tape your pictures into the correct sections.



STEP SEVEN:

Share your collage with someone. Then hang it up in the room where you do your math.

10 Rules to Live By



Love God more than anything else.



Never hurt anyone.



Make sure God is the most important part of your life.



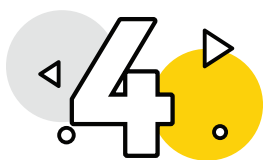
Love the one you marry.



Always use love and respect when you say God's name.



Don't take anything that isn't yours.



Keep the LORD's day special.



Always tell the truth.



Love and respect your dad and mom.



Rejoice in what you have.