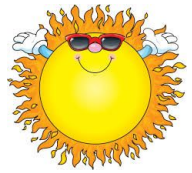
CPS Mathematics Department

Summer Math Learning Packet

for students entering Grade 3



The daily activities in this summer math packet focus on math concepts and skills that are central to Grade 2, including place value, measurement, addition and subtraction, and geometry.

Purpose: Just a few minutes each day spent "thinking and talking math" will help reinforce important math concepts and keep your child's "math brain" working. Please have fun together with math!

Do: Spend 10-15 minutes per day, a few days a week, on these math activities (more if you and your child are having fun). You may complete them in any order.

Ask:

- How did you figure that out?
- What are you thinking about?
- What could you try?

Extend: Ask your child to write about what they did, thought about, or learned in a notebook, which can become their math journal.

Math Tools You'll Need	What should I write in my math journal?
❑ Notebook for math journal ❑ Coins ❑ Pencil ❑ Crayons ❑ Dice (or virtual dice) ❑ Regular deck of playing cards (or virtual cards)	• The date • Write some words, numbers, or a picture to show what you did

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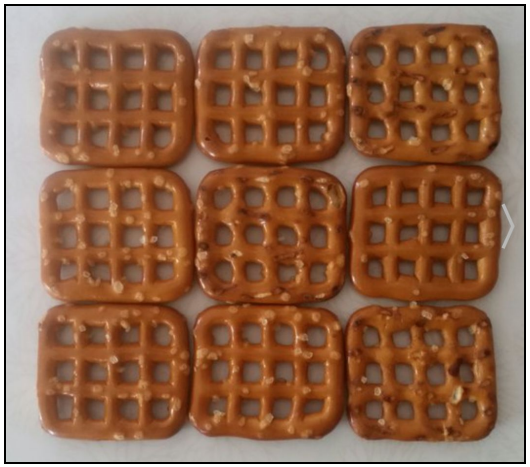
Week 1		
Day 1 Read *Lemonade in Winter*, by Emily Jenkins. How many dollars would you have if you had 20 quarters? How do you know? How many cups of lemonade would you need to sell to have $5?	Day 2 Play a board or card game like Dominoes, Tic-Tac-Toe, Checkers, or Connect 4. Did your strategy work? Will you try a different strategy the next time you play?	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger. 
Day 3 500 + 60 + 8 is a number. Write it as a three-digit number. Write its name in words. Draw a picture to represent the number. Locate it on the number line.	Day 4 You have $1.50 in your pocket. Make a list of 10 different combinations of coins you could have in your pocket.	

Week 2		
Day 1 Find or draw a picture. Write a story problem to go along with the picture. Challenge a friend to solve it!	Day 2 Find a flower with an odd number of petals online or outside. Do all flowers have the same number of petals?	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 You won first place at a contest! You have two choices for the prize: You can take $20 home with you today OR $2 a day for the next 15 days. Which option earns more money? How much more?	Day 4 Add the ages of all the people who live in your house. What is the sum? Is it greater than or less than 100, by how much?	

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Week 3		
Day 1 Keep track of the temperature everyday for the week. Draw a bar graph. Compare the difference in temperatures.	Day 2 Write as many number facts as you can in one minute. You can do it outside with chalk if you want!	Day 5 **HOW MANY?** What fraction of the square is blue? Yellow? Pink? Click here to see the picture bigger.
Day 3 Use all the digits 5, 7, and 2 to create different 3-digit numbers. What is the greatest number? What is the smallest number? How do you know?	Day 4 Find at least 5 different ways to make $1.00 using nickels, dimes, and quarters.	

Week 4		
Day 1 Use <, =, or > to complete the number sentences below. Then try to write your own! 657 ___ 457 + 100 + 100 923 + 10 ___ 953 – 10 – 10 - 10	Day 2 Today's number is 92. Make 92 in at least two ways using addition, and at least two ways using subtraction.	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 Play **Close to 100** (see directions below or this video to learn to play). Click here to play online.	Day 4 How many times can you hop on your left foot in a minute? Your right foot? Compare the number of hops using the symbols <, > or =. What is the difference?	

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Summer Math Learning Packet

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Week 5		
Day 1 100 is the answer. What could the question possibly be? Challenge yourself to think of more questions.	Day 2 Write down the years people who live with you were born. Put them in order from least to greatest.	Day 5 **HOW** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 Stand and jump as far as you can, and measure your jump. Jump 3 times and compare your measurements.	Day 4 How long will it be to your birthday in days? Use a calendar to keep track.	

Week 6		
Day 1 Find 20 coins in your house. What do they add up to? Is it more or less than $3.00?	Day 2 Write the numbers 729, 812, and 478 in expanded form: (Ex.: 583 = 500 +80 +3)	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 Go on a shape hunt for quadrilaterals. How many can you find? How are their attributes the same or different?	Day 4 Compare and record some three-digit numbers using >, < and =. (Ex.: 324 > 314)	

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Week 7		
Day 1 115 + 6 = 113 + ___ Copy this problem in your journal and fill in the blank. Explain how you got the answer.	Day 2 If you start playing a game at 8 a.m. and play for 1 and a half hour, what time is it when you're done? How do you know?	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 Use <, =, or > to complete the number sentences below. Then try to write your own! 347 + 30 ____ 397 − 10 − 10 926 _____ 726 + 100 + 10	Day 4 Starting with 101, skip count by 100 until you get to 1,001. What pattern do you notice? Try different numbers to start with, does the pattern change?	

Week 8		
Day 1 How many ten-dollar bills equal a hundred-dollar bill? Jen had 20 ten-dollar bills. How many hundred-dollar bills can she trade them for?	Day 2 700 + 80 + 1 is a number. Write it as a three-digit number. Write its name in words. Draw a picture to represent the number. Locate it on the number line.	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 Estimate how long it will take you to do 100 jumping jacks. Did it take more or less than 5 minutes? Record your time and compare with a friend.	Day 4 Play **Collect $1.00 or Spend $1.00.** (See directions below). Click here to play online: Collect $1.00; Spend $1.00.	

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Week 9		
Day 1 Record what time you get up today, what time you eat breakfast, lunch, and dinner, and what time you go to bed.	Day 2 Pia was having a party. She put 10 stickers in each party bag. She made 12 bags with ten stickers in each one. How many stickers total were in her 12 bags?	Day 5 **HOW MANY?** How many do you see? How did you figure it out? Can you find something else to count? Click here to see the picture bigger.
Day 3 Draw some boxes on the sidewalk or paper. Fill the boxes with the numbers you say when you count by 2s. Create a new set of boxes and write in numbers that show a pattern, such as counting by 5s, counting by 10s, decreasing by 1s, or decreasing by 2s.	Day 4 Choose to play either Collect $1.00, Spend $1.00, or Close to 100 again. See directions and links below.	

YOU DID IT! Please share your journal with your third grade teacher on the first day of school.

Student Name _____ Date _____

Adult Signature _____

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Math Books to Read

- One Hundred Hungry Ants by Eleanor Pinczes
- Crescent Moons and Pointed Minarets, by Hena Khan
- Grandma's Tiny House, by Janay Brown-Wood
- What Comes in 2s, 3s, and 4s? by Suzanne Aker [In Spanish; in Portuguese]
- How Many Seeds in a Pumpkin by Margaret McNamara
- Monarch Migration, by Megan Atwood [In Spanish; in Portuguese]
- Counting on Katherine by Helaine Becker
- A Place For Zero by Angelina Lopresti
- The Doorbell Rang by Pat Hutchins
- Hidden Figures, by Margot Lee Shetterly
- Lemonade in Winter, by Emily Jenkins
- Sometimes We Do, Omo Moses
- The Greedy Triangle by Marilyn Burns
- Sheep Won't Sleep, by Judy Cox
- Measuring Penny by Loreen Leedy
- One is a Snail, Ten is a Crab by April Sayre

Also check out TumbleMath Books here! **username:** cambridgeps **password:** login

Math Games To Play (You will need a deck of cards, dice, and coins)

1. **Collect $1.00 or Spend $1.00**
   - **Collect $1.00:** Player 1 rolls 2 dice and collects that much money in coins. Player 2 does the same. Race to see who can reach $1.00 first.
   - **Spend $1.00:** Each person starts with $1.00. Roll 2 dice and subtract that amount from the dollar. Race to see who spends their dollar first.
   - Click here to play online: Collect $1.00; Spend $1.00.
2. **Close to 100** Video instructions here Click here to play online
   - Deal 6 cards to each player. Use any 4 of your cards to make two 2-digit numbers. (Aces = 1; Jacks, Queens, & Kings = WILD cards, stand for any digit 0-9). Try to make a combination that when added is close to or exactly 100.

     5 4 3 A 8 3

   - You combine 48 and 53 to make 101. Your score is 1 since the difference between 101 and 100 is 1. You make a recording sheet in your journal like this: Round 1: 48 + 53 = 101 Score 1
   - Put the cards you used in the discard pile. Keep the other two for the next round. Pick up four more cards and play 5 rounds. Add the score to each round. The lowest score after 5 rounds wins.

Other games to play: Checkers, Othello, Memory, Set, jigsaw puzzles, Parcheesi, Crazy Eights, Connect Four, Legos, K'Nex, Jenga, Mancala, Yahtzee, Shut the Box, Dominoes

Check out the Games for Young Minds website! Many game ideas, with suggestions of questions to ask your child while they play.
https://www.gamesforyoungminds.com/