

Entering 2nd Grade Summer Math Work



WCS

Name: _____

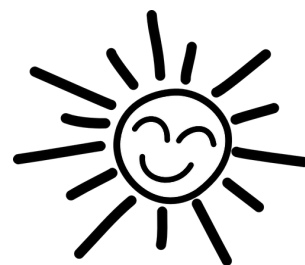
Dear Families,

It is so important for children to keep learning over the summer! Research shows that students can lose up to 2.6 months of math learning during the summer months. 2 hours of work each week in math can help prevent this summer learning loss. This packet will be your child's first math grade of the year and is due when we return in the fall.

In this packet, you will find 10 weeks of work, about 2 hours of work each week. We suggest you create a schedule that works for your family each week. Maybe you spend 15-30 minutes in the mornings working on this math work each day or maybe your child completes it all on Sunday evenings-- whatever works for you. Please do try to spread it over 10 weeks- don't try to do it all the last week of summer!

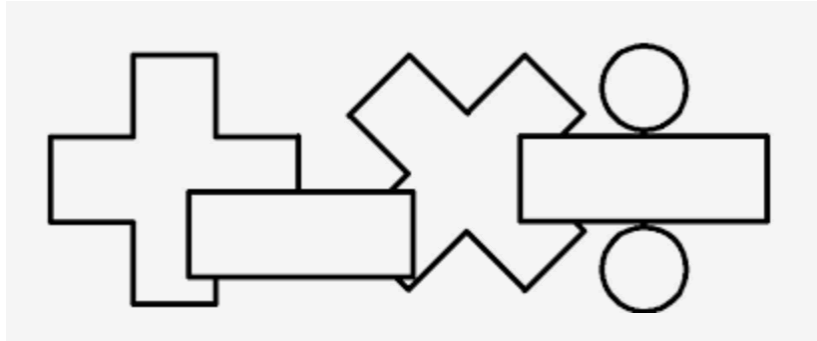
Directions are on the following page.

Happy summer!



Directions

1. Read the student and family page each week.
2. Try the activity of the week.
3. Complete the math pages.



New 2nd graders should..	Families should...
<ul style="list-style-type: none"><input type="checkbox"/> Talk to your family about completing the activity of the week. Write or draw about what you did.<input type="checkbox"/> Do your math pages each week. Make sure you show your work!	<ul style="list-style-type: none"><input type="checkbox"/> Talk to your child about the math they are doing. There are questions you can ask on the family instruction page and activities to do together as a family.<input type="checkbox"/> Reach out to Mr. Jack with any questions!

Week 1

I can... add numbers to 20.



For Families

Understanding the Math: In first grade, students spent a lot of time learning different strategies to add and used many different tools. You may be thinking, why not just memorize the facts? The different strategies help students develop fluency with their math facts. They also teach number sense, which will help greatly when students continue into more challenging math. Using tools helps your child see the math in their mind's eye which also helps develop fluency. Both of these things help your child become a flexible and accurate problem solver!

Resources:

-Your child practiced adding using a number rack. Here is a digital one: <https://apps.mathlearningcenter.org/number-rack/> Have your child use it to build any of the problems you are working on by sliding the amount over from left to right.

-Some strategies students learned this year: doubles facts ($5+5$, $8+8$), doubles plus or minus 1 ($6+5$, $7+8$), make ten facts ($7+4 = 7+3+1$), count on facts ($7+2$), and add ten facts ($4+10$).

Questions to Ask Your Child :

-How did you solve that problem?

-Can you build ____ on the number rack?

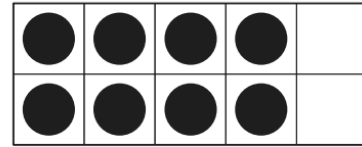
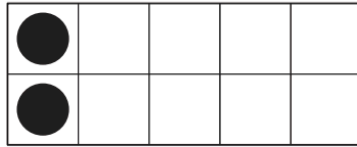
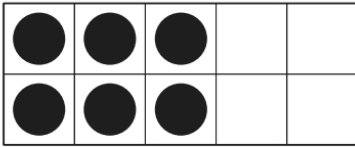
-Can you use what you know about double's facts to help you?

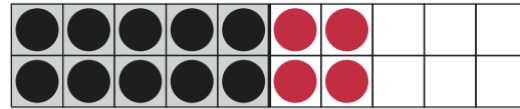
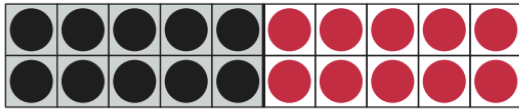
-How could you use a make ten fact to help you solve this problem?

Activity of the Week

Write your own addition problem! Make up a story problem uses addition. Write it down (or have a family member help you!) and draw a picture of your problem. Don't forget to find the total!

1 Write the Doubles fact for each ten-frame and double ten-frame.





1 Write an equation to match each ten-frame.

ex

$5 + 5 = 10$

a

b

2 Fill in the missing number for each 10 fact.

_____ + 6 = 10

_____ + 9 = 10

_____ + 7 = 10

_____ + 2 = 10

_____ + 8 = 10

_____ + 4 = 10

_____ + 5 = 10

_____ + 0 = 10

1 Fill in the blanks.

$10 + \underline{\quad} = 14$

$10 + 9 = \underline{\quad}$

$0 + 10 = \underline{\quad}$

$\underline{\quad} + 10 = 17$

$10 + 5 = \underline{\quad}$

$10 + \underline{\quad} = 16$

$10 + \underline{\quad} = 11$

$\underline{\quad} + 10 = 18$

$10 + 2 = \underline{\quad}$

$3 + 10 = \underline{\quad}$

$9 + 10 = \underline{\quad}$

$2 + \underline{\quad} = 12$

$5 + \underline{\quad} = 15$

$10 + 6 = \underline{\quad}$

$3 + \underline{\quad} = 13$

1 Solve as many of these addition combinations as you can in two minutes.

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$$

Week 2

I can... subtract numbers within 20.



For Families

Understanding the math: Your child learned a lot of strategies for subtraction this year! They may still be counting on their fingers too, though. Don't be alarmed by this. Fingers are actually a great visual tool. They help us see relationships between numbers. When shown on your fingers, you can easily see that 7 is made up of 5 and 2 which can help you remember that math fact. Children will eventually no longer need their fingers to help them add and subtract, but for now, it's okay if they are still using them!

Resources:

-Your child practiced subtracting this year using a number rack. Here is a digital one:

<https://apps.mathlearningcenter.org/number-rack/> Have your child build the first number in the subtraction problem by sliding beads to the right. Then they can slide beads to the right to subtract. Try to encourage them to slide bigger groups than just one at a time.

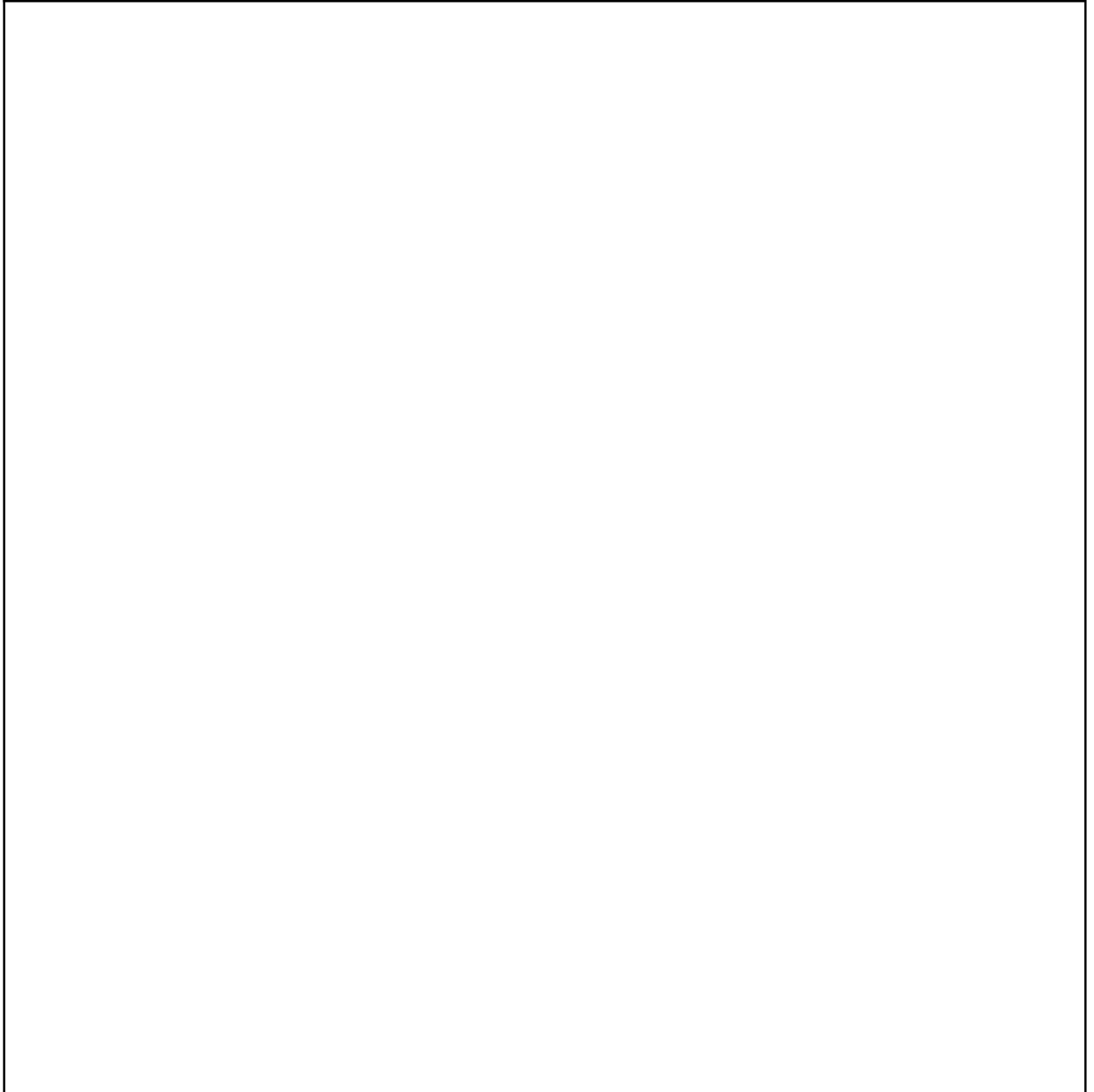
Questions to Ask Your Child :

- How did you know ____?
- What strategy did you use to find _____?
- Can you build this problem on a number rack?
- Can you draw a picture of this problem?

Activity of the Week

Write your own subtraction problem! Make up a story problem that has subtraction.

Write it down and draw a picture of your problem. Don't forget to find the difference!

A large, empty rectangular box with a thin black border, intended for students to write their subtraction problem and draw a picture illustrating it.

Use the hints or the dots to help solve each problem.

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 9 \\ - 7 \uparrow \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 9 \downarrow \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 8 \\ - 6 \uparrow \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 8 \downarrow \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 7 \\ - 4 \uparrow \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 5 \downarrow \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 6 \downarrow \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} \text{•••} \\ \text{••} \quad 5 \downarrow \\ - 2 \\ \hline \end{array}$$

Solve the problems, then show your thinking on the number line mat.

$9 - 3 = \underline{\quad}$



$8 - 5 = \underline{\quad}$



$6 - 5 = \underline{\quad}$



$7 - 4 = \underline{\quad}$



Solve the problems.

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$6 - 5 = \underline{\quad}$$

$$6 - 3 = \underline{\quad}$$

$$5 - 2 = \underline{\quad}$$

$$8 - 7 = \underline{\quad}$$

$$9 - 3 = \underline{\quad}$$

$$8 - 2 = \underline{\quad}$$

$$6 - 1 = \underline{\quad}$$

$$7 - 7 = \underline{\quad}$$

Solve the following subtraction facts using the Up to Ten strategy or another strategy (other than counting backward) that works for you.

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array}$$

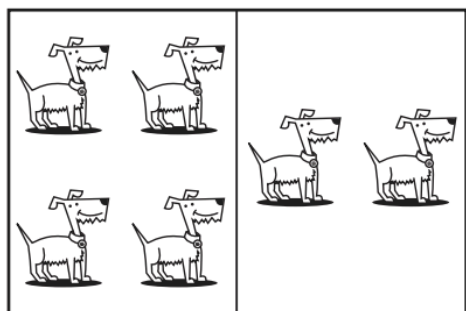
$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$$

Week 3

I can... create addition and subtraction fact families.



$$4 + 2 = \square$$

$$2 + \square = 6$$

$$6 - 4 = \square$$

$$6 - \square = 4$$

For Families

Understanding the math: Fact families are a set of related addition and subtraction problems (see above). You might be asking, why bother teaching fact families- my child should just memorize their addition and subtraction facts. Understanding fact families actually helps students with memorizing their addition and subtraction facts. If your child has memorized one fact in the fact family- maybe $4+2=6$ and if they understand fact families, they now will quickly be able to memorize the other three related facts!

Resources:

-In first grade your child made flap cards (like the one with the dogs above). There are two sections, for two of the numbers in the fact family on one flap and the other flap has the other number in the fact family. Moving these flaps around, they were able to visually see fact families.

-Playing with dominos is a great way to practice fact families! Your child can see the dots on each side and find the total.

Questions to Ask Your Child :

-Is there a fact you know that can help you with this problem?

-What are the three numbers in the fact family? Which number is the total?

-Can you write the four facts in this fact family?

Activity of the Week

Grab 10 of your favorite toys or snacks. Act out two story problems with them. One should show $4+6$ and another should show $10-3$. Draw a picture of what you used and write your solution below.

1 Write the fact family for each double ten-frame.

a

●	●	●	●	●
●	●	●		

●	●	●	●	●
●	●			

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

b

●	●	●	●	●
●	●	●	●	

●	●	●	●	●
●	●	●		

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

c

●	●	●	●	●
●	●	●	●	

●	●	●		

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

d

●	●	●	●	●
●				

●	●	●	●	●
●	●			

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

e

●	●	●	●	●
●	●	●		

●	●	●		

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

f

●	●	●	●	●
●	●			

●	●	●	●	●
●	●			

___ + ___ = ___

___ + ___ = ___

___ - ___ = ___

___ - ___ = ___

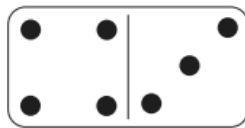
2 What do you notice about fact family f?

Solve the problems about dominoes below.

- 3** Sam has a domino with 4 dots on it. Draw the dots on this domino to show how Sam's domino looks.



- 4** Maria's domino has 1 less dot than Tim's. Draw the dots on Tim's domino to show how it looks.



Maria's domino



Tim's domino

How many dots? _____

How many dots? _____

- 5** Jeff's domino has 6 dots. Draw dots on the dominoes below to show three different dominoes that Jeff might have.



- 6 CHALLENGE** Tom has a domino with some dots. Kim's domino has 2 more dots than Tom's. Draw dots on these two dominoes to show how Tom's and Kim's dominoes look.



Tom's domino



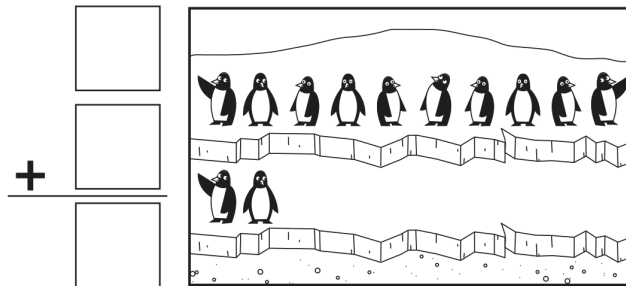
Kim's domino

How many dots? _____

How many dots? _____

Week 4

I can... solve word problems using addition and subtraction.



For Families

Understanding the math: Word problems can be particularly challenging for any age student! One of the best ways you can help your child with word problems is by helping them visualize the problem. There are lots of ways to do this. You can physically act out the problem together. You can use a tool like a number rack or counters. You can also have them draw a picture of what is happening. Once they can clearly visualize the problem, they can then focus on the math to solve it!

Resources:

-Using the number rack will again be very helpful with word problems. Students can build what is happening using the number rack. Here is the digital one:

<https://apps.mathlearningcenter.org/number-rack/>

Questions to Ask Your Child :

- What do you know in this problem? What don't you know?
- Can you act out what is happening? Can you draw it?
- Can you write a number sentence to match this problem?
- What operation do you need to do to solve this problem?

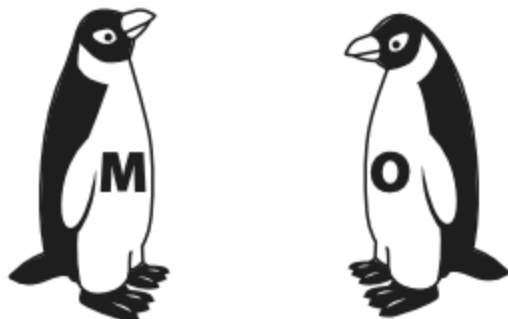
Activity of the Week

Write or draw a picture of a time you used math in real life.



Molly & Ollie

Meet the penguin twins, Molly and Ollie. They both love to dive into the icy cold water, catch fish, and eat them.



Here are some story problems about Molly and Ollie for you to show and solve on your number rack.

- 1** Molly caught 10 fish in the morning. She ate 6 of them. How many did she have left?

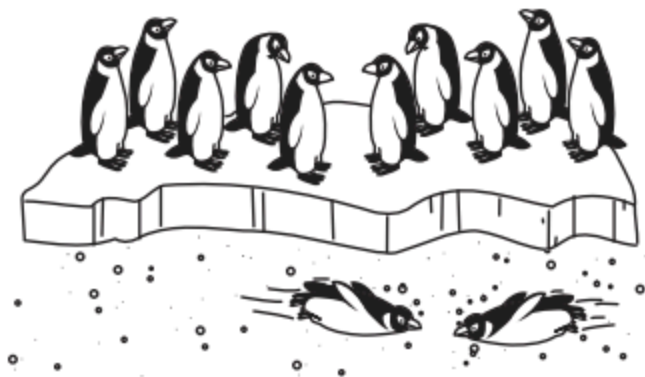
- 2** Ollie and Molly were having a fishing contest. Ollie caught 10 fish. Molly caught 7 fish. How many more fish does Molly need to catch to have the same number as Ollie?

- 3** Ollie caught 10 fish. He gave 5 of them to Molly. How many fish did he have left?



Penguins: Ten & Some More

- 1** Here is huddle of 10 penguins. Two penguin pals are swimming toward the huddle so they can get warm too. How many penguins will there be in all when the 2 penguins join their friends? Write an equation to show.



- 2** Here is huddle of 10 penguins. Six penguin pals are swimming toward the huddle, but they are too far away to see. How many penguins will there be in all when the 6 penguins join their friends? Write an equation to show.



- 3** There were 10 penguins in a huddle. Some more penguins joined them, and then there were 14 penguins in the huddle. How many penguins joined the huddle? Write an equation to show.
- 4** There were 10 penguins in a huddle. Some more penguins joined them, and then there were 17 penguins in the huddle. How many penguins joined the huddle? Write an equation to show.

Week 5

I can... count by 10s, 5s and 2s.



For Families

Understanding the math: Your child probably can count by 10s and maybe 5s and 2s. It is important that they learn not just to memorize the pattern of numbers though but actually understand the pattern. That is why you will see that often we ask students to count by numbers “off decade”. This means counting by a number but starting at something other than 0. So if we counted by tens starting at 4, it would be “4, 14, 24, 34...” This skill, especially with 10s, is incredibly helpful when adding and subtracting in older grades. Practicing this will also help your child develop a deep understanding of our number system!

Resources:

-Using a 100s chart can be very helpful for counting, here is a digital one: <https://toytheater.com/120-chart/>

Questions to Ask Your Child :

- Can you count by ____ starting at ____?
- Can you count backwards by ____?

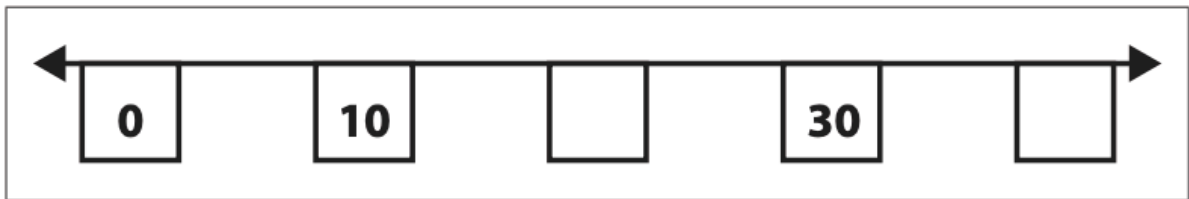
Activity of the Week

Create a collection! This could be seashells you find at the beach, cool leaves from the park, your toy cars, or rocks-- anything you can think of! Draw a picture of what you collected. Count how many you found by 10s, 5s, and 2s.

A large, empty rectangular box with a thin black border, intended for a child to draw a picture of their collection.

1 Fill in the missing numbers on these number lines.

Practice



a



b



c



2 Count forward by 10s to fill in the missing numbers.

Practice

0, 10, 20, _____, 40, _____, _____, 70, 80, _____, 100

a 4, 14, _____, 34, _____, _____, 64, 74, 84, _____, 104

b 7, _____, 27, 37, _____, 57, _____, 77, 87, _____, 107

Count forward and backward by 2s to fill in the missing numbers.

ex 2, 4, 6, 8, 10, 12, 14, 16

a _____, 4, _____, _____, 10, _____, _____, 16, _____

b _____, 12, 14, _____, _____, _____, 22, _____, 26

c 20, _____, 16, _____, _____, 10, _____, _____, 4

d 24, _____, _____, 18, _____, _____, 12, _____, 8

Count forward and backward by 2s to fill in the missing numbers.

ex 2, 4, 6, 8, 10, 12, 14, 16

a _____, 4, _____, _____, 10, _____, _____, 16, _____

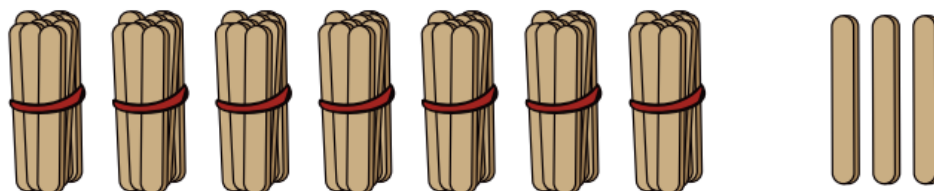
b _____, 12, 14, _____, _____, _____, 22, _____, 26

c 20, _____, 16, _____, _____, 10, _____, _____, 4

d 24, _____, _____, 18, _____, _____, 12, _____, 8

Week 6

I can... tell how many tens and how many ones make a number.



For Families

Understanding the math: Place value means understanding numbers in our “base ten” system which means numbers are made up of groups of 10s. 7 tens is 70, 10 hundreds is 1,000, 10 hundred-thousands is a million! When students practice building bundles of 10s like the sticks you see above, they develop a deeper understanding of our number system and faster ways to count. Understanding place value helps students understand decimals, multiplication, addition, and exponents, just to name a few things!

Resources:

-In second grade, students will begin to work with place value blocks (premade objects that show groups of 1s, 10s, and 100s.) You can introduce your child to these this summer at:

<https://apps.mathlearningcenter.org/number-pieces/> Try clicking the red, yellow, and green squares at the bottom left and then have your child build different numbers!

Questions to Ask Your Child :

- How many bundles of 10 are in 64? What if I added another bundle of ten? What if I took 2 bundles away?
- How many loose sticks would you have left over if you built the number 35? (5)
- Can you write a number sentence to show 73? ($70+3$)


Activity of the Week

Go on a big number hunt! Find two big numbers in your house or your neighborhood. Try to figure out how many 10s, and 1s are in that number. Draw or write what you found and how many 10s and 1s.

EX: I found a puzzle that had 52 pieces. There are 5 tens, and 2 ones in in 52.


- 1** Tell how many dimes and pennies there are in each box.
Then write an equation to show the total.

ex

	10s	1s
	2	1


Equation: $20 + 1 = 21$

a

	10s	1s


Equation:

b

	10s	1s


Equation:

c

	10s	1s


Equation:

d

	10s	1s


Equation:

e

	10s	1s


Equation:

f

	10s	1s

Equation:

g

	10s	1s

Equation:

Sasha has 47 Popsicle sticks (4 bundles of 10 and 7 sticks), and Jose has 62 (6 bundles of 10 and 2 sticks).

- a** Sketch Sasha's sticks in the first box and Jose's in the second box. (Hint: Use a rectangle for each bundle and a line for each stick.)

Sasha's Sticks	Jose's Sticks

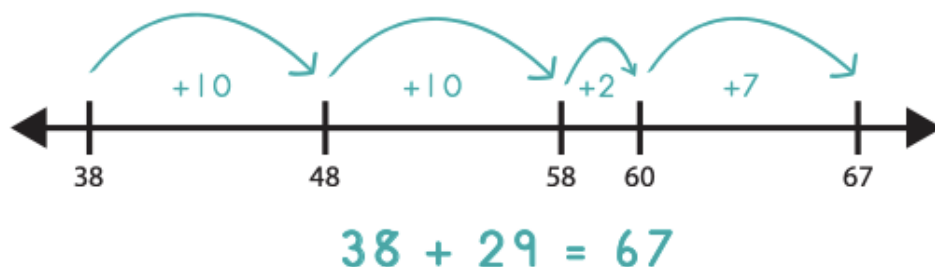
- b** Write the numbers on the lines and put a $>$, $<$, or $=$ sign between them.

_____ ○ _____

- c** **CHALLENGE** How many sticks do Sasha and Jose have in all? _____
Show how you know with sketches, numbers, or words.

Week 7

I can... use what I know about 10s and 1s to add and subtract.



For Families

Understanding the math: Using a number line to add and subtract is something we emphasize heavily in 1st and 2nd grade. You may be thinking, why not just teach them the way I learned? Often when we just teach the standard addition and subtraction methods, students don't actually understand what they are doing. They may know they need to "borrow" but don't know what this means. Just teaching the standard way often leads to mistakes and frustration and does not teach students number sense. Using a number line helps students visualize numbers and their relationships. It also helps them learn mental math strategies. Once they are very comfortable with the number line, we will teach them the standard methods!

Tips:

-Here is a digital number line:
<https://apps.mathlearningcenter.org/number-line/>
-Try adding numbers yourself on the number line! You may find that you actually mentally often use strategies you would use if drawing jumps on a number line.

Questions to Ask Your Child :

-What will you jump first? Why?
-Can you take bigger jumps than just 1?
-Is there another way you could jump on the number line?
-Where would you land if you added ten?

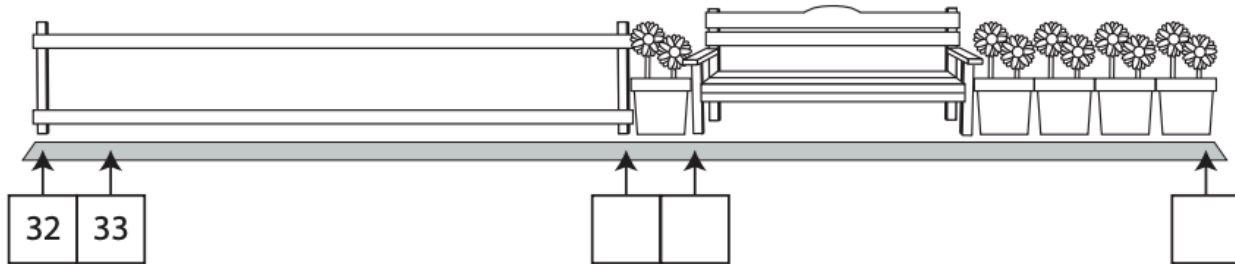
Activity of the Week

Create a giant number line on the ground! You can use sidewalk chalk, a string, or just a straight line. Use big jumps to represent hops of 10 and small steps to represent hops of one. Solve $22+14$ on your giant number line. Write what you did. Then try to have your family tell you other problems to solve!

EX: If I solve $16+11$, I would pretend that the beginning of my number line was 16. To first add 10 to 16, I would take one big jump and land on 26. Then, I would take one small step to represent adding 1. I landed at 27.

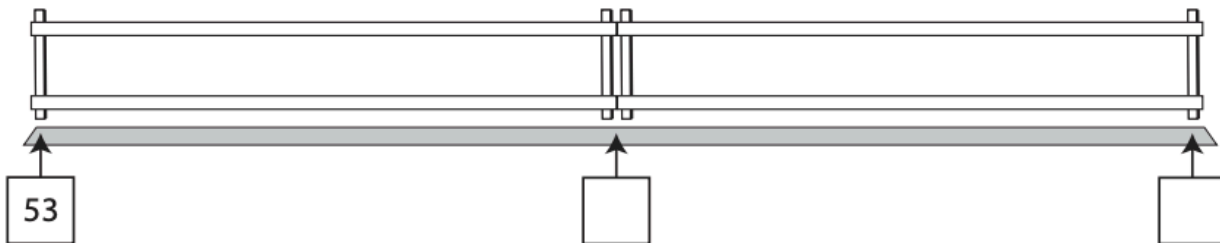
Answer the questions about each path. Remember that each fence section is 10 steps long, each bench is 5 steps long, and each flowerpot is 1 step long.

1 The fence on this path begins at step 32.



- a** What number belongs in the box at the end of the fence? _____
- b** What number belongs in the box at the beginning of the bench? _____
- c** What number belongs in the box below the last flowerpot? _____

2 The first fence section on this path begins at step 53.



- a** What number belongs in the box at the end of the first fence section? _____
- b** What number belongs in the box at the end of the second fence section? _____

Use the Hundreds Grid to help you find the sums and differences below:

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

4 Add.

$63 + 10 = \underline{\hspace{2cm}}$

$17 + 10 = \underline{\hspace{2cm}}$

$36 + 10 = \underline{\hspace{2cm}}$

$10 + 25 = \underline{\hspace{2cm}}$

$74 + 10 = \underline{\hspace{2cm}}$

$10 + 38 = \underline{\hspace{2cm}}$

5 Subtract.

$41 - 10 = \underline{\hspace{2cm}}$

$85 - 10 = \underline{\hspace{2cm}}$

$25 - 10 = \underline{\hspace{2cm}}$

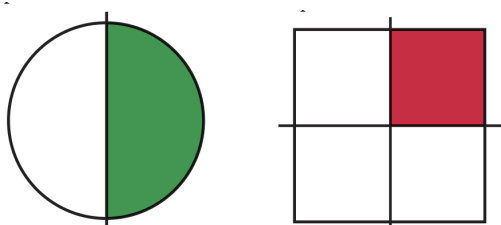
$97 - 10 = \underline{\hspace{2cm}}$

$52 - 10 = \underline{\hspace{2cm}}$

$31 - 10 = \underline{\hspace{2cm}}$

Week 8

I can... split shapes into halves and fourths and name the parts.



For Families

Understanding the math: When you ask adults about their experience with fractions, many do not remember them fondly! This is often because they didn't have a deep understanding of fractions before they tried to add, subtract, multiply, and divide them! Your child learned very basic fraction skills in 1st grade. This early introduction will help ensure that they are not afraid of fractions when they are older! Note that first graders mainly focused on halves and fourths.

Resources:

-You child knew about fractions before they even entered school. You probably taught your child about them! (*You can have half of this candy, split it in half to share!*) We naturally talk about sharing things often. Try to include your child even more in these conversations. Split your cookie in fourths, give your child one, ask how much of the cookie they got. Opportunities to talk about fractions are endless!

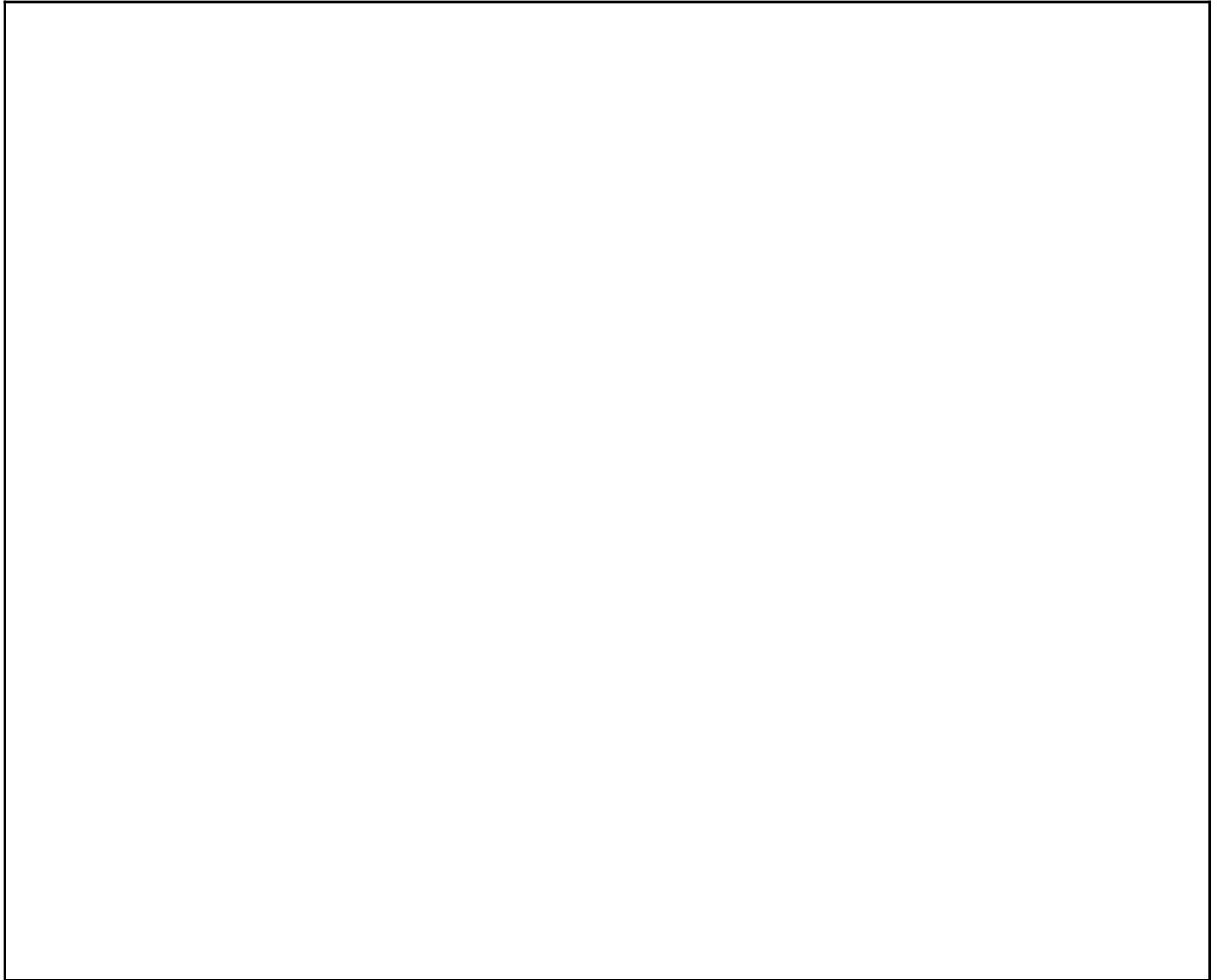
Questions to Ask Your Child :

- How many fourths make a whole?
- How much of this candy bar do I have?
- Can you split my sandwich into fourths? What is each part of my sandwich called?
- Would you rather have $\frac{1}{2}$ of a chocolate cake or $\frac{1}{4}$?

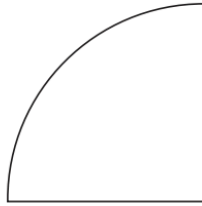
Activity of the Week

Build shapes out of play doh, clay, sand or mud OR paint or draw some shapes.

Divide the shapes into halves and fourths. Draw or write about what you did.

A large, empty rectangular box with a thin black border, intended for a child to draw or write about their activity.

How many quarter circles do you have to put together to make a whole circle? Write your answer on the line. Use the picture to help if you like.



I need _____ quarter-circles to make a whole circle.

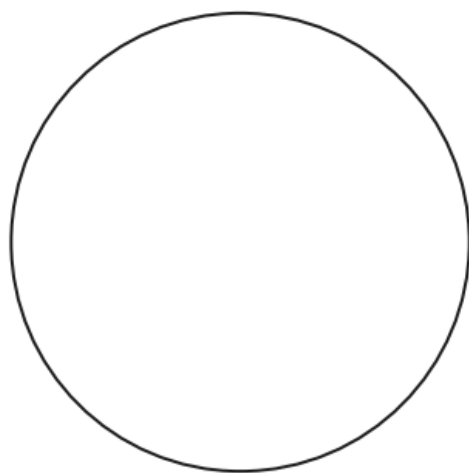
Your mom says you can have part of a mini-pizza. It's your favorite kind of pizza.

a Which part of the mini-pizza you would rather have? Color in the bubble to show.

☐ one-fourth ☐ one-half

b Why did you choose that part of the mini-pizza? Use words to explain, and pictures too if you like.

Use this circle to solve the problems below.



a Split this circle into 2 equal parts.

b Color half of the circle red.

Use this square to solve the problems below.



a Split this square into 4 equal parts.

b Color one of the parts blue.

c Fill in the bubble to tell what part of the square is blue.

☐ one-half

☐ one-fourth

☐ one-third

Week 9

I can... I can tell time to the nearest half hour.



For Families

Understanding the math: In first grade, your child learned how to tell time to the hour and half hour (not yet to the minute). Telling time is another great math skill to just talk with your child about. Tell them the time things are happening and ask them what time it is. Even though most of us don't have analog clocks, it's still a valuable skill to be able to read one. Telling time on an analogue clock also helps children count by fives and understand fractions (for example-half an hour).

Resources:

-Here is a virtual analogue clock to use with your child.

<https://toytheater.com/clock/>

Questions to Ask Your Child :

- What time is it?
- How did you know it was ____?
- Where does the hour hand point when it's ____ o'clock?
- Where does the minute hand point when it's 8:30?
- How many hours until ____?

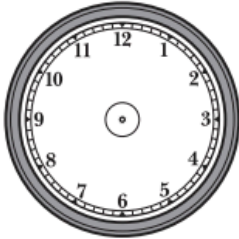
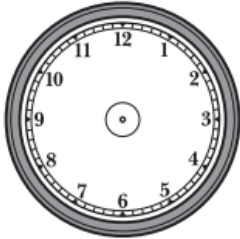
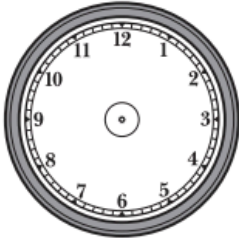
Activity of the Week

With the help of your family create a schedule for your day with the time and activity and write it below. Your schedule should have 5 things to do on it. Try to follow it! Check the clock frequently to see if you are on schedule!

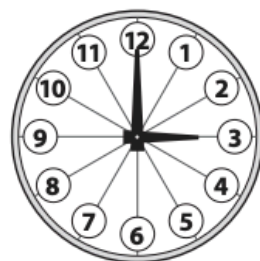
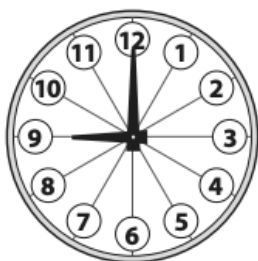
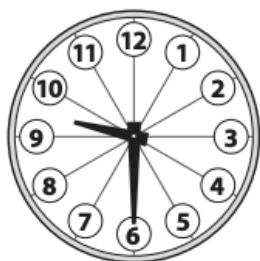
Draw a line from each clock face to the digital clock that tells what time it is.



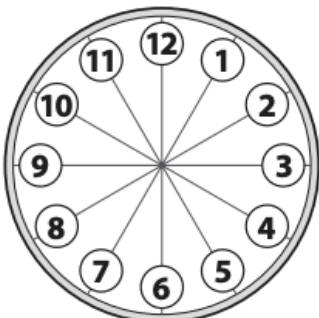

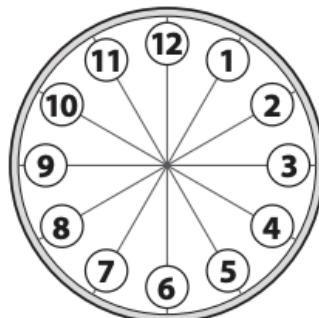

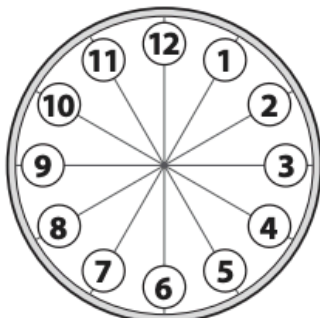

Draw hands on the clock to show each of the times.

 4:00	 2:30	 11:30
--	--	---

Draw lines between clocks that show the same time.

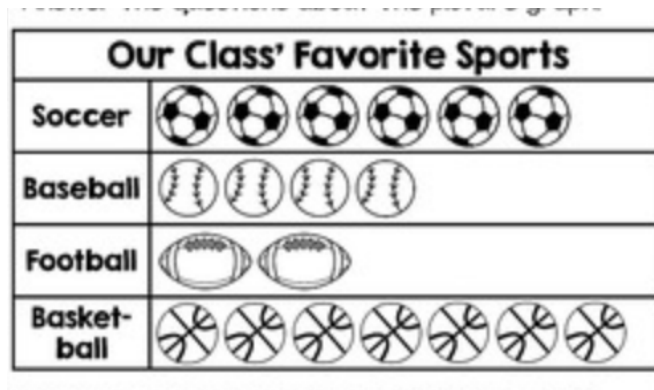


Draw the hour hand and minute hand to match the times below each clock.

<p>a</p>  	<p>b</p>  	<p>c</p>  
---	---	---

Week 10

I can... create and answer questions about graphs.



For Families

Understanding the math: In first grade your child learned about a few types of graphs: Picture graphs, like the one above, tally charts (with tally marks), and bar graphs (graphs with bars above or to the side of each option). Graphs help us organize our thinking, make conclusions, and show information. It is important for your child to be able to create and interpret graphs not just for their future math learning, but also as a skill they will use throughout their life. They will use graphs in science class, they will see graphs in their history textbooks, and they will see graphs in news stories. Being able to understand graphs is a lifelong skill!

Resources:

-Children love to ask questions and learn about their families. Help them to create graphs about what they learn. Here is a virtual graph making tool you can use:

<https://toytheater.com/graph-color-bars/>

Questions to Ask Your Child :

- Which has the most? How do you know?
- How many votes does ___ have?
- How many more ____ than ____ are there?
- What is the total number of votes?

Activity of the Week

Create a yes or no question survey for your family (for example, do you like pizza?). Try to ask 10 people. It's a great excuse to call family members! Make a graph of your survey below, coloring in the boxes for each answer. Then answer the questions.

Question: _____




Yes									
No									

How many people voted yes? _____

How many voted no? _____

Which answer got the most votes? _____

A first grade class voted on their favorite Popsicle flavors. They used tally marks to show how many votes each flavor got.

Flavor		Votes
Cherry		
Orange		
Grape		

1 How many votes did Cherry get? _____

2 How many votes did Orange get? _____

3 How many votes did Grape get? _____

4 How many votes were there in all? _____

5 Draw a circle around the name of the flavor that got the most votes.

Cherry

Orange

Grape

6 Draw a line under the name of the flavor that got the least votes.

Cherry




Orange

Grape

7 Write a statement about the flavor you circled and the flavor you underlined.

_____ > _____

Now make your own tally graph, this time making it about the lights in some of the rooms in your home. Count the lights in each room listed and make tally marks to show how many. The lights might be on the ceiling, on the floor, on a table, or under a counter.

Room	How many lights?
Kitchen 	
Living Room 	
Bedroom 	

8 How many lights are in the kitchen? _____

9 How many lights are in the living room? _____

10 How many lights are in the bedroom? _____

11 How many lights in all? _____

12 Draw a circle around the name of the room with the most lights.

Kitchen

Living Room

Bedroom

13 Draw a line under the name of the room with the fewest lights.

Kitchen

Living Room

Bedroom

14 Write a statement about the room you circled and the room you underlined.

_____ > _____