John P. Freeman Optional School

Zone 6

2023 Summer 2nd Grade Packet



Student Name ____

(Please be sure to write your initials on the line at the bottom of each page.)

This packet contains math concepts that may or may not have been taught in your previous classes but are important for 2nd grade. Students enrolled in 2nd grade Math for the 2023-2024 school year are expected to submit a completed packet during the first week of school (August 7-11). Exact due dates/procedures will be discussed on August 7th.

2nd Grade Summer Math Packet Instructions

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- 1. This packet has 6 sections, and it is recommended that students work on one section each week during the summer. It is NOT recommended to complete this packet immediately following school dismissal nor the night before the packet is due. Student learning is most effective if the packet is worked on throughout the summer at a steady pace.
- You should complete the problems without a calculator, and you should <u>SHOW ALL YOUR</u>
 WORK. Use additional paper is needed. No credit will be provided if your work is not shown.
- 3. After completing a section, rate your understanding of each week's topic by circling the image in the chart below.
 - **Smiley face** You understand ALL the concepts for that week and would be able to teach it to another student.
 - Neutral face You understand the concepts for the most part
 - Confused face You do not understand these concepts and need help reviewing.

WEEK	MATH TOPIC	MYRATING
1	Adding in Rows and Columns	

2	Calculating sums and differences	••	
3	Calculating sums and differences	••	
4	Number Line Subtraction Addition and subtraction word problems	••	
5	Addition Word Problems	••	
6	Modeling the Math	••	

What do I do if I don't understand something?

- Use your resources (online help sites, iReady, videos, parents, siblings, etc.)
- You may use the reference links in this packet to help you.
- Make a note of the topic/question on the rating chart and ask your teacher to review it during the first week of school.

What happens next?

- Concepts will be reviewed and discussed during the first week of school.
- Students will receive both a participation grade and an assessment grade, based on the packet completion. (Your teacher will discuss this with you August 7, 2023.)

We are excited about working with all of the students entering 2nd grade in 2023-2024. We want all students to feel prepared, confident, and successful for all of the important new concepts they will learn next year.



Rising 2nd Grade <u>RESOURCES</u>

WEEK	MATH TOPIC	video & Tutorial Links
1	Adding in Rows and Columns	 https://youtu.be/XNZr7fnHRCs 2.OA.C.4 SWBAT use repeated addition to find the total number of objects arranged in a rectangular array with up to five rows and up to 5 columns IOT write an equation to express the total as a sum of equal addends.
2	Calculating sums and differences	 https://www.youtube.com/watch?v=tlHMLEq6kXs 2.NBT.B.9 SWBAT use their understanding of place value and properties of operations IOT explain how addition and subtraction strategies work.
3	Calculating sums and differences	 https://www.youtube.com/watch?v=UiGi2q7TqAQ 2.NBT.B.9 SWBAT use their understanding of place value and properties of operations IOT explain how addition and subtraction strategies work.
4	Number Line Subtraction Addition and subtraction word problems	 https://www.youtube.com/watch?v=EQrCdEF3vNE&t=3s 2.NBT.B.7 SWBAT use concrete models or drawings and strategies based on place value properties of operations and/or the relationship between addition and subtraction IOT add and subtract within 1000.

		https://www.voutube.com/watch?v_g7mi24CISMw
5	Addition Word Problems	 https://www.youtube.com/watch?v=q7mi24ClSMw 2.NBT.B.7 SWBAT use concrete models or drawings and strategies based on place value properties of operations and/or the relationship between addition and subtraction IOT add and subtract within 1000.
6	Modeling the Math	https://www.youtube.com/watch?v=ohfz3qB9Znc

Week	1:	

Add each row number to each column number. (Range 11 to 20)

+	13	19	12	15	16	17	14	20	18	11
12										-
18										
14										
16										
13										
19										
20										
11										
17										
15										

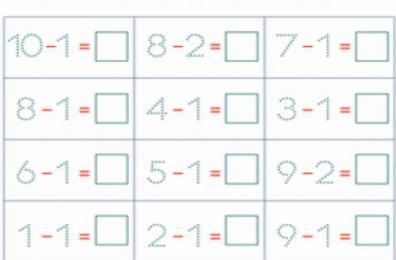
Week #2 and Week #3 Calculating each sum or difference.

Calculate each sum or difference.

Number Line SUBTRACTION

- . When you take away I from a number the result is the number before that.
- . Use the number line to count back to help you subtract the numbers.
- Write your answers in the space provided.





Week #4: Number Line **Subtraction** Addition and subtraction word problems



Mio is working at the carnival fair today. Help her calcuate her totals by adding or subtracting.

- 1. Mio sold 14 pink cotton candies and 23 blue cotton candies. How many cotton candies did she sell in total?
- At the beginning of the day, Mio had 63 pretzels, but by the end of the day she only had 18 pretzels. How many pretzels did she sell?
- 3. It was a hot day and many people bought ice cream cones at the fair. Mio sold 18 vanilla flavored cones, 15 strawberry flavored cones, and 21 chocolate cones. How many cones did she sell in total?

- 4. Mio had 57 fun pack tickets. At the end of the day she only had 9. How many fun packs did she sell?
- 5. When Mio wasn't busy helping customers, she gave away balloons to visitors. Mio gave away 8 neon pink balloons, 11 forest green balloons, 24 jumbo purple balloons, and 5 sky blue metallic balloons. How many balloons did she give away?



Week #5



Word Problems: Addition

Read each word problem below. Write a number sentence and solve the problem.

Example:

There are 14 baby chicks in the hen house. 10 more baby chicks are born. How many baby chicks are in the hen house now?

Sara has 15 goldfish. Aunt Trish gives her 16 more goldfish. How many goldfish does Sara have now?

Will finds 48 seashells at the beach. Joy finds 36 seashells. How many seashells do they have total?

Dad plants 22 flowers in the yard. Mom plants 15 more flowers. How many flowers are in the yard now?

Lily has 30 pieces of candy. Rick has 27 pieces of candy. How many pieces of candy do they have total?

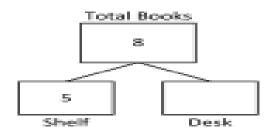
Tim has 13 shiny rocks in his fish tank. He places 18 more shiny rocks into the tank. How many shiny rocks are in the fish tank now?

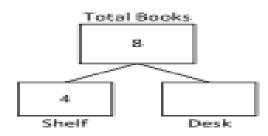
Week #6: Modeling the Math

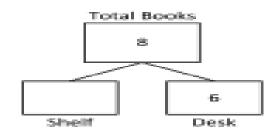
 Anna has 8 books. She puts some of the books on a shelf. She puts the rest of the books in her desk.

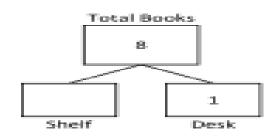


Fill in each number band to show different ways Anna may have put her books away.







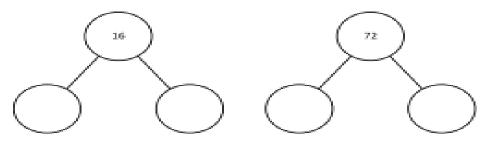


How many more are needed to make 10?

Match each addition sentence with the correct missing addend.

- Circle all the true number sentences.
- a. 27 = 2 tens + 7 ones
- b. 27 = 27 tens
- C. 27 = 2 + 7
- d. 27 = 27 ones
- e. 27 = 1 ten + 17 ones
- f. 27 = 20 + 7

4. Part A: Break apart each number so that one part is 10.



Part B: Complete each number sentence.

5. Measure the length of the crayon using centimeter cubes.



The length of the croyon is ____ centimeters.



Students Should be able to complete fact test in 10 minutes.

Name Skill; Subtracting from 18 or less Make codics Subtraction Facts Test Score. -15+ test Oct. 17 Write the answers. . 100 A. 6-0=_____ 12-6=____ 13-7=____ 10-0=____ 9-0=____ B. 5-5= ____ 10-7= ____ 8-5= ___ 11-6= ___ 2-2= ___ C. 2-0= ____ 8-0= ___ 11-9= ____ 3-0= ___ 15-8= ___ D. 1-0=_____ 16-9=____ 9-8=____ 8-3=___ 5-4=___ E. 14-9= ____ 8-4= ____ 13-5= ____ 10-1= ____ 8-2= ____ F. 3-1=____ 12-8=____ 10-9=____ 13-6=____ 11-2=____ G. 10-6= ____ 8-1= ___ 9-1= ___ 8-6= ___ 16-7= ___ H. 1-1=____ 14-5=____ 10-2=____ 7-5=___ 7-2=___ I. 12-9= ____ 9-7= ____ 15-7= ____ 7-1= ____ 9-9= ____. J. 6-3=---- 7-7=--- 12-3=--- 11-8=--- 7-6=---K. 5-3= ____ 10-3= ____ 7-4= ____ 18-9= ____ 10-5= ____ L. 15-6= 17-9= 9-2= 10-8= 13-9= ____ M. 6-2= ____ 11-3= ____ 12-5= ____ 6-4= ___ 7-3= ____ N. 11-7= ____ 6-5= ___ 8-7= ___ 9-3= ___ 17-8= ___ D. 4-3= _____ 14-7= _____ 13-8= _____ 6-1= ___ 7. 10-4=--- 11-4=--- 12-4=--- 14-6=---2. 16-8= ____ 11-5= ___ 4-4= ___ 5-0= ___ 7-0= ___ 3. 3-3=____ 5-1=___ 6-6=____ , 9-6=____ 15-9=___ 3. 4-0= 13-4= 4-2= 2-1= 5-2= ____ 8-8= 4-1= 9-5= 12-7= 14-8= rank Schaffer Publications, Inc.

Addition Facts Test

Write the answers.

Score ____

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FS-32003 Math

Students are to learn the Number- words.

www.worksheetfun.com

Number Words						
1 one	21 twenty-one	41 forty-one	61 sixty-one	81 eighty-one		
2 two	22 twenty-two	42 forty-two	62 sixty-two	82 eighty-two		
3 three	23 twenty-three	43 forty-three	63 sixty-three	83 eighty-three		
4 four	24 twenty-four	44 forty-four	64 sixty-four	84 eighty-four		
5 five	25 twenty-five	45 forty-five	65 sixty-five	85 eighty-five		
6 six	26 twenty-six	46 forty-six	66 sixty-six	86 eighty-six		
7 seven	27 twenty-seven	47 forty-seven	67 sixty-seven	87 eighty-seven		
8 eight	28 twenty-eight	48 forty-eight	68 sixty-eight	88 eighty-eight		
9 nine	29 twenty-nine	49 forty-nine	69 sixty-nine	89 eighty-nine		
10 ten	30 thirty	50 fifty	70 seventy	90 ninety		
11 eleven	31 thirty-one	51 fifty-one	71 seventy-one	91 ninety-one		
12 twelve	32 thirty-two	52 fifty-two	72 seventy-two	92 ninety-two		
13 thirteen	33 thirty-three	53 fifty-three	73 seventy-three	93 ninety-three		
14 fourteen	34 thirty-four	54 fifty-four	74 seventy-four	94 ninety-four		
15 fifteen	35 thirty-five	55 fifty-five	75 seventy-five	95 ninety-five		
16 sixteen	36 thirty-six	56 fifty-six	76 seventy-six	96 ninety-six		
17 seventeen	37 thirty-seven	57 fifty-seven	77 seventy-seven	97 ninety-seven		
18 eighteen	38 thirty-eight	58 fifty-eight	78 seventy-eight	98 ninety-eight		
19 nineteen	39 thirty-nine	59 fifty-nine	79 seventy-nine	99 ninety-nine		
20 twenty	40 forty	60 sixty	80 eighty	100 one hundred		

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Students should be able to skip- count 2-10.

Skip Counting by ...

2s	35	45	5,	65	7s	85	95	10s
2	3	4	5	6	7	8	9	10
4	6	8	10	12	14	16	18	20
6	9	12	15	18	21	24	27	30
8	12	16	20	24	28	32	36	40
10	15	20	25	30	35	40	45	50
12	18	24	30	36	42	48	54	60
14	21	28	35	42	49	56	63	70
16	24	32	40	48	56	64	72	80
18	27	36	45	54	63	72	81	90
20	30	40	50	60	70	80	90	100
22	33	44	55	66	77	88	99	110
24	36	48	60	72	84	96	108	120

ts should be able to Skip-Count 2-1	
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