



**2nd Grade
Summer
Work
Packet &
Activities**

Dear Parents,

Each student is expected to engage in fun and consistent math practice throughout the summer to avoid the summer slide. Brains need rest, too, however, so don't forget to take some time off.

Summer Work Expectations and Guidelines:

Print out this packet. If you don't have access to a printer, you may pick up a hard copy at school. The student work portion is due the first day of school to next year's teacher!

- The packet includes problems from different areas of the 1st grade curriculum. It is expected that the students are entering into 2nd grade having mastered these areas. Particular areas of strength and growth are noted in your child's report card.
- If your child completes the packet in June and doesn't solve any math problems for the rest of the summer, she will lose some very important concepts. This packet should be spread out, repeated or tweaked along the way to provide consistent practice.
- The pencil and paper portion includes some questions that are from the next grade level. Do not worry if your child has difficulty, or hasn't mastered these extensions.

Suggested Schedule:

Weekly: 1st grade students should have **fluency with addition and subtraction facts to 10**. As they enter 2nd grade, you can extend the addition and subtraction facts to 20.

Bi-Monthly/Monthly: Review the concepts included in the packet. Feel free to copy, change the numbers or use the resources below to provide additional practice.

Parents: You have homework too!

Recommended Books and Resources:

Jo Boaler's Parent Resources: [Jo Boaler's Youcubed.org](http://JoBoaler'sYoucubed.org) from Stanford University

[The Opposite of Spoiled](#) by Ron Leiber

Family Activities:

- Involve your daughter in your shopping experiences. While we love to use our debit and credit cards, find time to allow your child to pay with cash. Other activities include estimating the total cost of the purchase, deciding between items based on price or wants and calculating how much change should be given when paying.
- Board games are a wonderful way for your child to learn turn-taking, game strategies, money, counting and perseverance. These are critical to developing a strong mathematician.
 - Good games: Chess, Blokus, Monopoly, Parcheesi, Candyland, Sorry, Mancala
- Measure, cook and bake with your daughter!
- Involve your daughter in calculating distance traveled, time spent traveling and make the "Are we there yet?" into a math problem!

Resources for Solving Word Problems and math facts:

<http://www.mathfactcafe.com/>

<http://www.gregtangmath.com>

Resources to Practice Computation and Fact Fluency

Play math games in the car such as:

- Triangle Math Facts: Give three numbers from a combination and the child names the associated facts. For example, Adult says, "Three, nine, six." Child answers, " $3 + 6 = 9$, $6 + 3 = 9$, $9 - 6 = 3$ or $9 - 3 = 6$."
- Number partners: Adult picks a target number. Adult says a number, child answers with the corresponding number that will equal the target number. For example, if the target number is 6: adult says 4, child says 2.

Card Games: (These are just a couple)

- War: (addition or difference war) Each player flips over two cards and finds the sum/difference. The player with the greatest sum/difference wins the round.
- Target Number or 24: Using 4 – 5 digits, players add and/or subtract to make the target number. (You can buy the game 24 or there's an app too!)

Websites that require a subscription:

Name	Website	Description
Dreambox	www.dreambox.com	An adaptive, constructive website that provides students with practice with math concepts & skills practice (check privacy policy)
ixl	www.ixl.com	A website that provides practice with topics organized by grade level or by standard (check privacy policy)

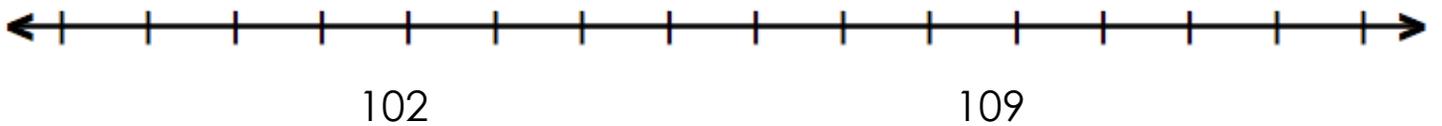
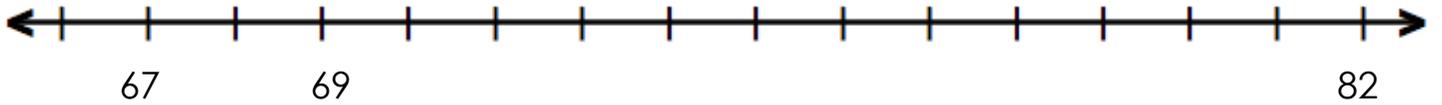
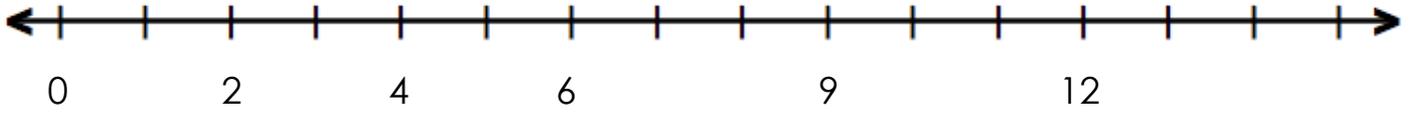
Free websites:

Name	Website
Greg Tang Math	gregtangmath.com
Calculation Nation	http://calculationnation.nctm.org/
Mathbreakers	https://mathbreakers.com
Addition & Subtraction Math Magician	http://www.oswego.org/ocsd-web/games/Mathmagician/mathsadd.html http://www.oswego.org/ocsd-web/games/Mathmagician/mathssub.html
Fact Monster	http://www.factmonster.com/math/flashcards.html

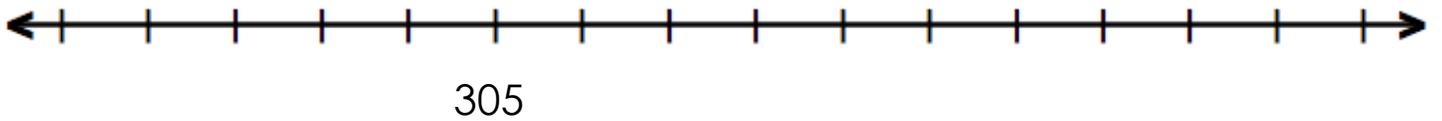
Apps: There are many, many apps that give explicit fact fluency practice. Choose the one your child likes the most!

Reading, Writing and Sequencing Numbers into the 100s

Fill in the missing numbers on the number lines below.

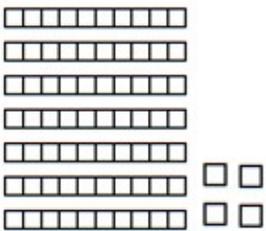


Extend and Continue:

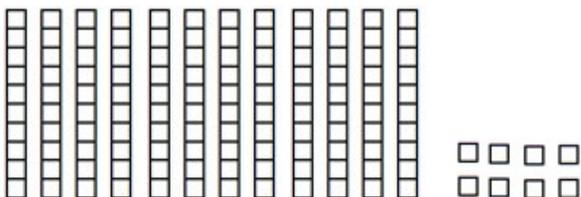


Place Value:

What number is shown below in Base 10 blocks?



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Understanding Place Value

a. What is the value of the underlined digit in 57? _____

What is the value of the underlined digit in 57? _____

b. In the number 85, is the 8 is in the tens place or ones place? _____

c. What is the value of the underlined digit in 138? _____

What is the value of the underlined digit in 138? _____

What is the value of the underlined digit in 138? _____

Comparing and ordering numbers:

Compare the numbers below by using $>$, $<$, or $=$

a. 91 _____ 19

b. 63 _____ 66

c. 105 _____ 112

d. 112 _____ 121

e. 210 _____ 198

g. 483 _____ 348

Which number is bigger 64 or 46? Explain how you know. (Extension 112 or 121)

Put the following numbers in order from least to greatest:

109, 65, 56, 110, 6, 201

Explain how you know what order to put them in.

Adding and Subtracting with 10s

a. $30 + 10 =$ _____

b. $20 + 30 =$ _____

c. $53 + 10 =$ _____

d. $71 + 20 =$ _____

e. $10 +$ _____ $= 60$

f. $30 +$ _____ $= 60$

g. $40 +$ _____ $= 70$

h. $10 + 26 =$ _____

i. $13 + 12 =$ _____

j. $25 + 21 =$ _____

a. $50 - 10 =$ _____

b. $70 - 20 =$ _____

c. $53 - 10 =$ _____

d. $78 - 20 =$ _____

e. $40 -$ _____ $= 30$

f. $60 -$ _____ $= 40$

g. _____ $- 10 = 50$

h. _____ $- 10 = 70$

There are 10 children playing at the beach. Some children are playing in the sand and some are playing in the water. How many children could be in the sand? How many children could be in the water? Show all the possible ways.

Addition and Subtraction

$6 + 2 = \underline{\quad}$

$5 + 4 = \underline{\quad}$

$5 + \underline{\quad} = 11$

$12 + 5 = \underline{\quad}$

$8 + 9 = \underline{\quad}$

$6 + \underline{\quad} = 9$

$\underline{\quad} + 2 = 13$

$7 + \underline{\quad} = 13$

$25 + 3 = \underline{\quad}$

$32 + 4 = \underline{\quad}$

$46 + 5 = \underline{\quad}$

$88 + 3 = \underline{\quad}$

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

$8 - 4 = \underline{\quad}$

$7 - 3 = \underline{\quad}$

$12 - 4 = \underline{\quad}$

$10 - 8 = \underline{\quad}$

$15 - 3 = \underline{\quad}$

$26 - 2 = \underline{\quad}$

$38 - 4 = \underline{\quad}$

Solving Story Problems

Solve the problems. Write an equation to match the problem and show your work.

On Sheila's birthday she brought in cupcakes for the class to share. There were 11 vanilla cupcakes and 8 chocolate cupcakes. How many cupcakes did she bring in? How many more vanilla cupcakes were there than chocolate?

The first grade class was studying butterflies. On release day, there were 16 butterflies ready to go. 5 flew away right away but the rest stayed in the cage. How many stayed in the cage?

For a food drive the 1st grade had collected some cans of food. Mariah brought in 7 more cans, then there were 15 cans of food. How many cans of food did Mariah bring in?

Ms. Beshel made a summer reading list. On her list she wanted to read 5 non-fiction books, 6 mysteries and 4 poetry books. How many books were on her reading list?

Open Response Problems

(Solve on a separate sheet)

<p>Turn over 2 numeral cards to make a two-digit number. Record the number that is 10 more and the number that is 10 less. Repeat.</p>	<p>Use your 0-9 cards. Turn over two cards to make a two-digit number. Roll your die and add the number shown. Record and repeat.</p>
<p>Sean had 7 marbles. His sister gave him some more and then he had 11 marbles. How many marbles did Sean's sister give him? Explain your thinking.</p>	<p>Roll two dice and draw them. Write the number model and turn around the fact. Repeat.</p>
<p>I subtracted one number from another and got a difference of two. What might the two numbers be?</p>	<p>Lia's dad baked 18 pies. Some were apple and some were cherry. How many were apple? How many were cherry? Show as many different solutions as you can.</p>
<p>Use your 0-9 cards. Turn over 4 cards and make two different two-digit numbers. Write the numbers and use the symbols $<$, $>$ or $=$ to compare them. Repeat.</p>	<p>Sort a cup of mixed food items (raisins, cereal, crackers etc.) Use pictures, numbers and/or words to show how many in each group and how many more or less in one group than another.</p>
<p>Use craft sticks, paper clips, pencils, etc to measure how long and how wide your table is. Record.</p>	<p>Decide on a 'Yes/No' question that you would like to collect data on. Ask other people your question and record their answers. What did you find out?</p>
<p>Ben had 7 toy cars. Meg had 12 toy cars. Sheila had 8 toy cars. How many cars did they have altogether? Who had the most cars?</p>	<p>Trace around different tangrams. Shade and label one half of each shape.</p>
<p>Decide on a 'Would you Rather?' question that you would like to collect data on. Ask other people your question and record their answers. What did you find out?</p>	<p>Choose a domino. Draw the domino and write all the ways to add or subtract to get to that number. (Fact family)</p>

Number Cards (Print and Cut to Play Card Games)

0

1

2

3

4

5

6

7

8

9

10