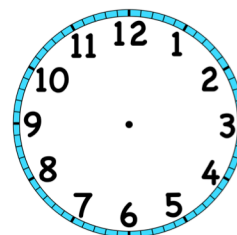
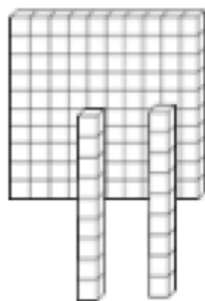


2nd Grade

Math  
Summer  
Packet



By Mindful Meaningful Math

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 2<sup>nd</sup> grade curriculum. It is expected that the students are entering into 3<sup>rd</sup> grade having mastered these areas.
- If your child completes the packet in June and doesn't solve any math problems for the rest of the summer, s/he 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: 1 – 2 pages of this packet and consistent practice of the math facts. 2<sup>nd</sup> grade students should have **fluency with addition and subtraction facts to 20**. These should be practiced consistently.

### **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 child 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 child 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!)

### Free websites:

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

### Websites that require a subscription:

Name	Website	Description
DreamBox	<a href="http://dreambox.com">dreambox.com</a>	An adaptive, individualized learning website.
ixl	<a href="http://www.ixl.com">www.ixl.com</a>	A website that provides practice with topics organized by grade level or by standard (check privacy policy)

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

Name: \_\_\_\_\_

Keep track on the logs below to show the time you spent solving math problems, reading or doing anything else educational this summer.

### Homework Log for June:

Date/Week	Activity

### Homework Log for July:

Date/Week	Activity

### Homework Log for August:

Date/Week	Activity

Name: \_\_\_\_\_

## Place Value and Base 10

### 1. Complete the equations below.

$$75 = \underline{\quad} \text{ tens} + \underline{\quad} \text{ ones}$$

$$\underline{\quad} \text{ hundreds} + \underline{\quad} \text{ tens} + \underline{\quad} \text{ ones} = 209$$

$$\underline{\quad} \text{ ones} + \underline{\quad} \text{ tens} + \underline{\quad} \text{ hundreds} = 542$$

To make **189**, I could use:

$$\underline{\quad} \text{ hundreds} + \underline{\quad} \text{ tens} + \underline{\quad} \text{ ones}$$

or  $\underline{\quad} \text{ tens} + \underline{\quad} \text{ ones}$

### 2. Write the numbers below in expanded form.

$$\underline{\hspace{10em}} = 158$$

$$\underline{\hspace{10em}} = 509$$

$$\underline{\hspace{10em}} = 1,294$$

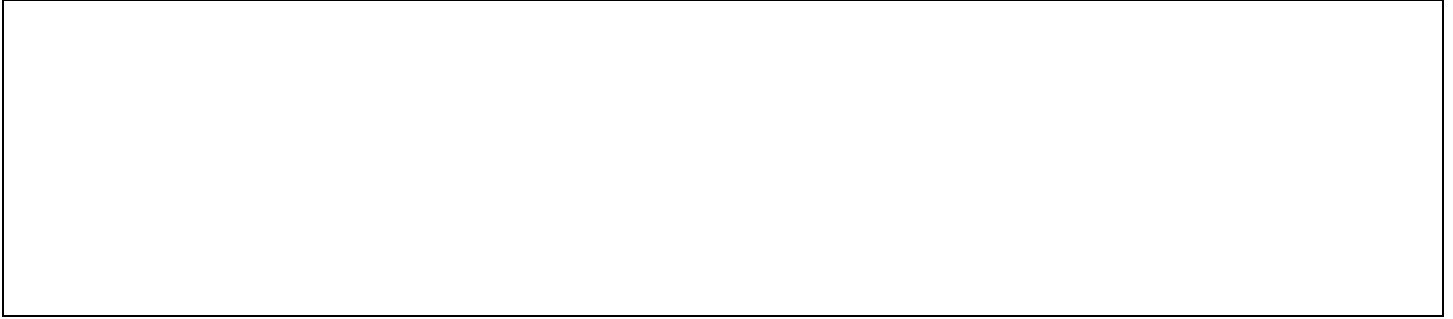
### 3. Write the numbers below in standard form (number form).

$$300 + 80 + 4 = \underline{\hspace{2em}}$$

$$600 + 10 + 9 = \underline{\hspace{2em}}$$

$$1,000 + 400 + 30 + 6 = \underline{\hspace{2em}}$$

**1. Draw base 10 blocks below to show the number 251.**



**2. In the number 461:**

The 1 digit represents: \_\_\_\_\_

The 4 digit represents: \_\_\_\_\_

The 6 digit represents: \_\_\_\_\_

**3. Which number is in the hundreds place in 563: \_\_\_\_\_**

Which number is in the thousands place in 3,109: \_\_\_\_\_

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

**a.**  $918$  \_\_\_\_\_  $981$

**b.**  $802$  \_\_\_\_\_  $798$

**c.**  $1,201$  \_\_\_\_\_  $1,198$

**5. Adding and subtracting with tens and hundreds:**

**a.**  $284 + 10 =$  \_\_\_\_\_

**b.**  $392 + 10 =$  \_\_\_\_\_

**c.**  $275 - 10 =$  \_\_\_\_\_

**d.**  $671 + 100 =$  \_\_\_\_\_

**e.**  $508 - 10 =$  \_\_\_\_\_

**f.**  $432 - 100 =$  \_\_\_\_\_

**g.**  $916 + 100 =$  \_\_\_\_\_

**h.**  $1,003 - 10 =$  \_\_\_\_\_



## Addition and Subtraction

$52 + 41 =$

$148 + 291 =$

$542 + 489 =$

$86 - 17 =$

$685 - 232 =$

$419 - 255 =$

$2,145 + 1,532 =$

$724 - 469 =$

$1,342 - 1,138 =$



## Addition and Subtraction

$238 + 141 =$

$382 + 291 =$

$458 + 375 =$

$64 - 28 =$

$594 - 375 =$

$624 - 366 =$

$1,392 + 1,429 =$

$635 - 276 =$

$1,842 - 955 =$

## Addition and Subtraction

$482 + 263 =$

$711 + 176 =$

$358 + 265 =$

$175 - 28 =$

$471 - 264 =$

$826 - 243 =$

$1,433 + 2,511 =$

$811 - 357 =$

$2,113 - 1,019 =$

## Developing Flexibility and Efficiency with Addition & Subtraction

Look at the numbers before solving to choose the most efficient strategy. Hint: It may not be the algorithm or using expanded form...think about friendly numbers!

$426 + 199 =$

$362 + 198 =$

$503 + 177 =$

$95 + 95 =$

$99 - 67 =$

$101 - 75 =$

$267 - 98 =$

$1,002 - 998 =$

## Subtraction Fact Fluency

**a.**  $12 - 6 =$

**b.**  $11 - 3 =$

**c.**  $15 - 7 =$

**d.**  $12 - 4 =$

**e.**  $16 - 9 =$

**f.**  $11 - 6 =$

**e.**  $14 - 7 =$

**f.**  $17 - 8 =$

**g.**  $12 - 9 =$

**h.**  $14 - 6 =$

**i.**  $13 - 5 =$

**j.**  $14 - 5 =$

**k.**  $11 - 8 =$

**l.**  $13 - 8 =$

## Solving Story Problems

- a.** Patti had \$225 in her wallet. She went shopping and had \$87 left. How much money did she spend shopping?
- b.** During field day the 1<sup>st</sup> place winner threw the baseball 116 feet, which was 37 more feet than the 2<sup>nd</sup> place winner. How far did the 2<sup>nd</sup> place winner throw the baseball?
- c.** J'vonae's basketball team won the first four games of the season. The first game they scored 35 points. Every game thereafter, they scored 10 more points than the game before. How many total points did they score in the first 4 games?
- d.** Alice's class had an estimation jar. There were 265 candies in the jar. She gave some candy to her classmates and then there were 187 candies left. How much candy did she give to her classmates?

## Solving Story Problems

- a.** Carmelo had \$215 saved for a new bicycle. The bike cost \$350. How much more money does he need to save?
- b.** Anthony collected shells on the beach to sell. He collected 15 on Monday, 26 on Tuesday, 51 on Wednesday and 14 on Thursday. How many shells did Anthony collect?
- c.** There was a shopping cart full of tennis balls at the start of the lesson. After the students hit 265 balls, there were 167 balls left. How many balls were in the cart at the beginning of the lesson?
- d.** There are 251 kids at summer camp. They had 228 popsicles to give out. Are there enough for every child? If not, how many more would they need?

Number Cards (Print and Cut to Play Card Games)

0

1

2

3

4

5

6

7

8

9

10