"Summer Math Practice for Rising 5th Graders"
Summer 2022
Packet Due Date: First Day of School

Summer Math Practice is a review of 4th grade skills necessary for success in 5th grade math. Rising 5th graders are required to complete this math practice on the worksheets provided and show all work. The practice is organized into **11** sessions. **Students should pace themselves throughout the summer as they complete each session. Please neatly staple the practice sheets together in order. The summer packet will count as a small grade. It will be graded on neatness, accuracy, effort, and following directions.**

Note: In the practice sessions, examples have been done for your child.

Math Concepts
Incoming 5th graders are expected to know the following concepts.

* Place Value of Whole Numbers
* Addition and Subtraction of Whole Numbers
* Multiplication of Whole Numbers
* Multiplication of Whole Numbers x One-digit and Two-digit Multipliers
* Division of Whole Numbers with One-Digit Divisors
* Fractions: Equivalent Fractions, Simplest Form, Mixed Numbers, Improper Fractions, Adding and Subtractions Fractions

Basic Facts

The students will be held accountable throughout the year on knowing the basic facts.

Practice Links to Review Skills:
http://www.honorpoint.com
http://www.IXL.com (Go to 5 Grade & click on Math.)

Facts Speed Practice
http://www.math-drills.com (Go to "Multiplication Facts Worksheets.")
http://www.mathscore.com (Click on "Free Stuff" & click on "Math Worksheet Generators & "Free Math Facts Worksheets."
http://www.mathfactcafe.com (Click on "Basic Facts.")
http://www.multiplication.com (Go to Auto-Scored Quizzes)

Complete all math problems on these practice sheets neatly. Staple the sheets in order, and bring this math packet on the first day of school. <u>CAREFULLY follow the example for each concept.</u>

"Whole Numbers"

Session 1: Place Value
Write the <u>value of the underlined digit.</u>

1) 49<u>8</u> ___8___   2) <u>6</u>7,238 _____   3) 3<u>0</u>,450 _____

4) 35<u>8</u>,499,927 _____   5) 22<u>9</u>,922,292,929 _____

6) <u>5</u>55,555 _____   7) 30,2<u>7</u>9,852,168 _____

8) 33,<u>8</u>75 _____   9) 600,08<u>1</u> _____   10) <u>2</u>5 _____

Write the following numbers in <u>expanded form.</u>

11) 36,729 $30,000 + 6,000 + 700 + 20 + 9$ _____

12) 255,006 _____

13) 3,330,303 _____

_____

Write the following numbers in <u>word form.</u>

14) 562 five hundred sixty-two _____

15) 40,026 _____

16) 8,064,002 _____

_____

Session 2: Place Value
Write the following numbers in <u>standard form.</u>

1) 500,000 + 2,000 + 400 + 50 + 2 ___502,452___

2) 80,000,000 + 2,000,000 + 900 + 40 + 4 _____

3) twenty-five thousand, four hundred sixty-two _____

4) two hundred fifty million, three thousand, eighty-six

_____

Compare the following numbers. Write <u><, >, or =</u> in the blanks.

5) 5,124 __>__ 5,024   6) 9,991 _____ 9,992

7) 35,608 _____ 32,608   8) 222,002 _____ 212,002

9) 71,469 _____ 77,468   10) 558,393 _____ 558,393

11) 2,502,502 _____ 2,520,502   12) 56,498,984 _____ 56,498,983

13) 607,589,003,611 _____ 606,589,003,611

14) 24,009,800,707 _____ 24,009,800,707

Order the following numbers from <u>greatest to least</u> by writing the number order above the numbers with 1 being the greatest.

            3   1   2
15) 24,068   24,860   24,680

16) 595,602   595,603   596,602

17) 27,468,904   7,468,409   7,486,904   77,468,904

2

Session 3: Rounding and Estimating
Round each number to the place of the underlined digit.

1) 45,681 __45,700__

2) 274,532 _____

3) 5,361,213 _____

4) 22,868 _____

5) 6,051,697 _____

6) 561,434 _____

Using the number 3,906,435, round to each place named.

7) millions __4,000,000__

8) tens _____

9) hundred thousands _____

10) hundreds _____

Round to the greatest place value to estimate the sum or difference. Write the rounded problem and estimate in the space to the right of each problem. Watch the + and - signs!

11) 582,369   600,000
    + 443,112 +400,000
                1,000,000

12) 3,213,716
    + 4,632,239

13) 618,936
    + 414,694

14) 53,612
    - 3,502

15) 892,015
    - 14,613

16) 527,312
    - 394,617

3

Session 4: Addition - Find the sums.

1) 3,864
   + 2,489
   _____
    6,353

2) 4,439
   + 4,492

3) 8,209
   + 7,644

4) 21,816
   + 32,258

5) 96,260
   + 5,779

6) 842,631
   + 49,059

7) 837,450
   + 234,684

8) 6,392,533
   + 2,139,747

9) 5,672
       309
   + 985

10) 22,480
      5,992
   +   208

Session 5: Subtraction - Find the differences.

1) 9,006
   - 7,653
   _____
    1,353

2) 4,906
   - 2,552

3) 3,567
   - 1,548

4) 20,806
   - 2,905

5) 46,962
   - 45,228

6) 564,097
   - 88,632

7) 791,000
   - 325,084

8) 692,533
   - 239,747

9) 9,602,066
   - 3,504,582

10) 8,308,004
    - 2,809,622

Session 6: Rounding and Estimating in Multiplication

<u>Round to the greatest place value, and estimate the product.</u> Use the space to the right of the problem to write the rounded problem and multiply to estimate the product. <u>You DO NOT need to find the exact products!!</u>

1) 378 400
   x 2 x 2
        800

2) 986
   x 5

3) 5,235
   x 49

4) 38,650 40,000
   x 82 x 80
          3,200,000

5) 694,899
   x   45

6) 91,342
   x   72

7) 298,568
   x   54

8) 59,650
   x   75

9) 393,665
   x   25

10) 71,889
    x   92

11) 129,228
    x   23

5

Session 7: Multiplication - Find the products.

1)   801
   x   3

2)   2,10$\overset{2}{5}$
   x   5
   10,525

3)   5,089
   x   7

4)   22,896
   x   9

5)   12,565
   x   4

6)   496,053
   x   6

7)   71
   x 23

+ _____

8)   706
   x 44

+ _____

9)   9,516
   x 25

+ _____

10)   2,435
   x   46

+ _____

11)   7,330
   x   35

+ _____

12)   4$\overset{3}{5}$,0$\overset{1}{2}\overset{4}{6}$
   x   72
   90052
+ 3151820
   3,241,872

13)   48,702
   x   45

+ _____

14)   580,228
   x   43

+ _____

6

Session 8: Division - Find the quotients.
Be careful to keep your numbers lined up! Use whole number remainders NOT decimals.

1) $2\overline{)406}$

2) $6\overline{)206}$ 34 r 2

     -18 ↓
       26
      -24
        2

3) $8\overline{)488}$

4) $5\overline{)503}$

5) $6\overline{)905}$

6) $8\overline{)5,624}$

7) $7\overline{)35,140}$ 5,020

    -35 ↓
     01
    - 0 ↓
      14
     -14 ↓
      00
     - 0
       0

8) $6\overline{)86,002}$

9) $3\overline{)241,200}$

7

Session 9: Problem Solving
Use addition, subtraction, multiplication, and division. Solve each problem. Please show your work.   Work here.

1) Wet Pets had 235 clown fish, 483 angel fish, and 746 tiger fish. How many fish were there in all?

   There were 1,464 fish in all.

$$\begin{array}{r} \overset{1\ \ 1}{2}35 \\ 483 \\ +746 \\ \hline 1,464 \end{array}$$

2) Mary had 5,239 marbles. She gave 472 marbles to Fred. How many marbles did Mary have left?

3) A shipping company packs 16 boxes of candy per shipping box. How many boxes of candy are shipped in 35 shipping boxes?

4) Jane, Susan, and Joy want an equal share of pencils that their teacher is giving away. If the teacher is giving away 556 pencils, how many pencils will they each get? Will there be any pencils left over?

5) Students attend school 36 weeks per year. How many weeks per year are students on vacation?

6) If students attend school 36 weeks per year, how many school days is that?

Session 10: Equivalent fractions, Simplest Form, Improper & Mixed Numbers

Write the <u>equivalent fractions.</u>

1) $\dfrac{5}{9} = \dfrac{25}{45}$

2) $\dfrac{48}{} = \dfrac{6}{7}$

3) $\dfrac{3}{10} = \dfrac{30}{}$

4) $\dfrac{8}{16} = \dfrac{}{4}$

5) $\dfrac{27}{} = \dfrac{9}{11}$

6) $\dfrac{18}{27} = \dfrac{2}{}$

7) $\dfrac{}{3} = \dfrac{10}{15}$

8) $\dfrac{5}{9} = \dfrac{50}{}$

Write the fractions in <u>simplest form.</u>

1) $\dfrac{12}{18} = \dfrac{2}{3}$

2) $\dfrac{9}{21} =$

3) $\dfrac{21}{35} =$

4) $\dfrac{16}{28} =$

5) $\dfrac{18}{81} =$

6) $\dfrac{6}{42} =$

7) $\dfrac{54}{63} =$

8) $\dfrac{25}{75} =$

Write the <u>mixed numbers as improper fractions.</u>

1) $10\,\dfrac{3}{4} = \dfrac{43}{4}$

2) $11\,\dfrac{4}{5} =$

3) $7\,\dfrac{3}{9} =$

4) $9\,\dfrac{2}{3} =$

5) $11\,\dfrac{4}{8} =$

6) $8\,\dfrac{3}{7} =$

7) $5\,\dfrac{3}{7} =$

8) $3\,\dfrac{7}{10} =$

Write the improper fractions as mixed numbers.

1) $\dfrac{57}{9} = 6\dfrac{3}{9}$ 2) $\dfrac{77}{10} =$ 3) $\dfrac{67}{8} =$ 4) $\dfrac{25}{4} =$

$= 6\dfrac{1}{3}$

5) $\dfrac{48}{5} =$ 6) $\dfrac{82}{11} =$ 7) $\dfrac{75}{9} =$ 8) $\dfrac{64}{7} =$

Session 11: Fractions with Like Denominators

Add Fractions with Like Denominators. Simplify the answers.

1) $\dfrac{1}{4}$ 2) $\dfrac{3}{6}$ 3) $\dfrac{6}{10}$ 4) $\dfrac{6}{12}$

$+ \dfrac{1}{4}$ $+ \dfrac{2}{6}$ $+ \dfrac{3}{10}$ $+ \dfrac{2}{12}$

$\dfrac{2}{4} = \dfrac{1}{2}$

5) $\dfrac{3}{7}$ 6) $\dfrac{4}{16}$ 7) $\dfrac{3}{15}$ 8) $\dfrac{2}{18}$

$+ \dfrac{3}{7}$ $+ \dfrac{11}{16}$ $+ \dfrac{2}{15}$ $+ \dfrac{10}{18}$

Subtract Fractions with Like Denominators. Simplify the answers.

9) $\dfrac{7}{9}$ 10) $\dfrac{5}{10}$ 11) $\dfrac{15}{20}$ 12) $\dfrac{12}{13}$

$- \dfrac{5}{9}$ $- \dfrac{3}{10}$ $- \dfrac{5}{20}$ $- \dfrac{9}{13}$

$\dfrac{2}{9}$

13) <u>6</u>
   8
   <u>2</u>
- <u>8</u>

14) <u>10</u>
   24
   <u>7</u>
- <u>24</u>

15) <u>12</u>
   27
   <u>3</u>
- <u>27</u>

16) <u>11</u>
   21
   <u>5</u>
- <u>21</u>

Hooray! You made it! I hope you took your time and did a neat, accurate job. I look forward to seeing you on the first day of school! **I do not need the front cover sheet with your packet.**

Ms. Hill