

“Summer Math Practice for Rising 5th Graders”

Summer 2021

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. When dividing by whole numbers, any remainders should be written in whole numbers; not in decimal form.

Math Concepts

Incoming 5th graders are expected to know the following concepts. These concepts will be assessed after a brief review of each concept at the beginning of the year.

- * 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 basic addition, subtraction, multiplication, and division math facts are the “building blocks” of your child’s math education. Knowledge and fast recall of the basic facts are essential for success with fractions, multi-digit algorithms, decimals, and higher level math. **At the beginning of school, the children will be taking timed speed tests in addition and subtraction for practice. After a few weeks, these tests will be graded and count as one grade each grading period. Later, the students will take speed tests in multiplication and division.**

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)

Name _____
Date _____

Summer Math Practice
Rising 5th Graders

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. CAREFULLY follow the example for each concept.

“Whole Numbers”

Session 1: Place Value

Write the value of the underlined digit.

- 1) 498 8 2) 67,238 _____ 3) 30,450 _____
4) 358,499,927 _____ 5) 229,922,292,929 _____
6) 555,555 _____ 7) 30,279,852,168 _____
8) 33,875 _____ 9) 600,081 _____ 10) 25 _____

Write the following numbers in expanded form.

- 11) 36,729 30,000 + 6,000 + 700 + 20 + 9
12) 255,006 _____
13) 3,330,303 _____

Write the following numbers in word form.

- 14) 562 five hundred sixty-two
15) 40,026 _____
16) 8,064,002 _____

Session 2: Place Value

Write the following numbers in standard form.

- 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 <, >, or = 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 greatest to least by writing the number order above the numbers with 1 being the greatest.

15) $\frac{3}{24,068}$ $\frac{1}{24,860}$ $\frac{2}{24,680}$

16) $\overline{595,602}$ $\overline{595,603}$ $\overline{596,602}$

17) $\overline{27,468,904}$ $\overline{7,468,409}$ $\overline{7,486,904}$ $\overline{77,468,904}$
2

Session 4: Addition - Find the sums.

$$\begin{array}{r} 1) \quad \overset{!}{3},\overset{!}{8}\overset{!}{6}4 \\ + 2,489 \\ \hline 6,353 \end{array}$$

$$\begin{array}{r} 2) \quad 4,439 \\ + 4,492 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 8,209 \\ + 7,644 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 21,816 \\ + 32,258 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 96,260 \\ + 5,779 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 842,631 \\ + 49,059 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 837,450 \\ + 234,684 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 6,392,533 \\ + 2,139,747 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 5,672 \\ \quad 309 \\ + 985 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 22,480 \\ \quad 5,992 \\ + 208 \\ \hline \end{array}$$

Session 5: Subtraction - Find the differences.

$$\begin{array}{r} 1) \quad \overset{8}{0},\overset{10}{0}06 \\ - 7,653 \\ \hline 1,353 \end{array}$$

$$\begin{array}{r} 2) \quad 4,906 \\ - 2,552 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 3,567 \\ - 1,548 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 20,806 \\ - 2,905 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 46,962 \\ - 45,228 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 564,097 \\ - 88,632 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 791,000 \\ - 325,084 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 692,533 \\ - 239,747 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 9,602,066 \\ - 3,504,582 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 8,308,004 \\ - 2,809,622 \\ \hline \end{array}$$

Session 6: Rounding and Estimating in Multiplication

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

$$\begin{array}{r} 1) \quad 378 \\ \times \quad 2 \\ \hline \end{array} \quad \begin{array}{r} 400 \\ \times \quad 2 \\ \hline 800 \end{array}$$

$$\begin{array}{r} 2) \quad 986 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 5,235 \\ \times \quad 49 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 38,650 \\ \times \quad 82 \\ \hline \end{array} \quad \begin{array}{r} 40,000 \\ \times \quad 80 \\ \hline 3,200,000 \end{array}$$

$$\begin{array}{r} 5) \quad 694,899 \\ \times \quad 45 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 91,342 \\ \times \quad 72 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 298,568 \\ \times \quad 54 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 59,650 \\ \times \quad 75 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 393,665 \\ \times \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 71,889 \\ \times \quad 92 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 129,228 \\ \times \quad 23 \\ \hline \end{array}$$

Session 7: Multiplication - Find the products.

$$\begin{array}{r} 1) \ 801 \\ \times \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \ 2,105 \\ \times \ 5 \\ \hline 10,525 \end{array}$$

$$\begin{array}{r} 3) \ 5,089 \\ \times \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \ 22,896 \\ \times \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \ 12,565 \\ \times \ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \ 496,053 \\ \times \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \ 71 \\ \times \ 23 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \ 706 \\ \times \ 44 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \ 9,516 \\ \times \ 25 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 10) \ 2,435 \\ \times \ 46 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \ 7,330 \\ \times \ 35 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \ 45,026 \\ \times \ 72 \\ \hline 90052 \end{array}$$

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

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

$$+ \begin{array}{r} 3151820 \\ \hline 3,241,872 \end{array}$$

$$\begin{array}{r} 13) \ 48,702 \\ \times \ 45 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \ 580,228 \\ \times \ 43 \\ \hline \end{array}$$

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

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

**Session 8: Division - Find the quotients.
Be careful to keep your numbers lined up!**

$$\begin{array}{r}
 203 \\
 2 \overline{)406} \\
 \underline{-4} \\
 00 \\
 \underline{-0} \\
 06 \\
 \underline{-6} \\
 0
 \end{array}$$

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

$$3) 8 \overline{)488}$$

$$4) 5 \overline{)503}$$

$$5) 6 \overline{)905}$$

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

$$\begin{array}{r}
 5020 \\
 7 \overline{)35,140} \\
 \underline{-35} \\
 01 \\
 \underline{-0} \\
 14 \\
 \underline{-14} \\
 00 \\
 \underline{-0} \\
 0
 \end{array}$$

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

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

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.

$$\begin{array}{r} 235 \\ 483 \\ +746 \\ \hline 1,464 \end{array}$$

- 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 equivalent fractions.

1) $\frac{5}{9} = \frac{25}{45}$ 2) $\frac{48}{7} = \frac{6}{7}$ 3) $\frac{3}{10} = \frac{30}{100}$ 4) $\frac{8}{16} = \frac{1}{4}$

5) $\frac{27}{11} = \frac{9}{11}$ 6) $\frac{18}{27} = \frac{2}{3}$ 7) $\frac{10}{3} = \frac{10}{15}$ 8) $\frac{5}{9} = \frac{50}{90}$

Write the fractions in simplest form.

1) $\frac{12}{18} = \frac{2}{3}$ 2) $\frac{9}{21} = \frac{3}{7}$ 3) $\frac{21}{35} = \frac{3}{5}$ 4) $\frac{16}{28} = \frac{4}{7}$

5) $\frac{18}{81} = \frac{2}{9}$ 6) $\frac{6}{42} = \frac{1}{7}$ 7) $\frac{54}{63} = \frac{6}{7}$ 8) $\frac{25}{75} = \frac{1}{3}$

Write the mixed numbers as improper fractions.

1) $10 \frac{3}{4} = \frac{43}{4}$ 2) $11 \frac{4}{5} = \frac{59}{5}$ 3) $7 \frac{3}{9} = \frac{64}{9}$ 4) $9 \frac{2}{3} = \frac{29}{3}$

5) $11 \frac{4}{8} = \frac{92}{8}$ 6) $8 \frac{3}{7} = \frac{59}{7}$ 7) $5 \frac{3}{7} = \frac{38}{7}$ 8) $3 \frac{7}{10} = \frac{37}{10}$

Write the improper fractions as mixed numbers.

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

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

Session 11: Fractions with Like Denominators

Add Fractions with Like Denominators. Simplify the answers.

$$1) \begin{array}{r} \frac{1}{4} \\ + \frac{1}{4} \\ \hline \frac{2}{4} = \frac{1}{2} \end{array} \quad 2) \begin{array}{r} \frac{3}{6} \\ + \frac{2}{6} \\ \hline \end{array} \quad 3) \begin{array}{r} \frac{6}{10} \\ + \frac{3}{10} \\ \hline \end{array} \quad 4) \begin{array}{r} \frac{6}{12} \\ + \frac{2}{12} \\ \hline \end{array}$$

$$5) \begin{array}{r} \frac{3}{7} \\ + \frac{3}{7} \\ \hline \end{array} \quad 6) \begin{array}{r} \frac{4}{16} \\ + \frac{11}{16} \\ \hline \end{array} \quad 7) \begin{array}{r} \frac{3}{15} \\ + \frac{2}{15} \\ \hline \end{array} \quad 8) \begin{array}{r} \frac{2}{18} \\ + \frac{10}{18} \\ \hline \end{array}$$

Subtract Fractions with Like Denominators. Simplify the answers.

$$9) \begin{array}{r} \frac{7}{9} \\ - \frac{5}{9} \\ \hline \frac{2}{9} \end{array} \quad 10) \begin{array}{r} \frac{5}{10} \\ - \frac{3}{10} \\ \hline \end{array} \quad 11) \begin{array}{r} \frac{15}{20} \\ - \frac{5}{20} \\ \hline \end{array} \quad 12) \begin{array}{r} \frac{12}{13} \\ - \frac{9}{13} \\ \hline \end{array}$$

$$\begin{array}{r} 13) \underline{6} \\ 8 \\ \underline{2} \\ - \underline{8} \end{array}$$

$$\begin{array}{r} 14) \underline{10} \\ 24 \\ \underline{7} \\ - \underline{24} \end{array}$$

$$\begin{array}{r} 15) \underline{12} \\ 27 \\ \underline{3} \\ - \underline{27} \end{array}$$

$$\begin{array}{r} 16) \underline{11} \\ 21 \\ \underline{5} \\ - \underline{21} \end{array}$$

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.**

Mrs. Elam