

## **Summer Math Practice for Rising 5th Graders**

Summer Math Practice is a review of 4th grade skills necessary for success in 5th grade Math. Rising 5th graders must complete this math practice neatly on the worksheets provided and show all work. The practice is organized into 10 sessions. Students should pace themselves throughout the summer as they complete each session. Staple the practice sheets together in order. **The summer math packet is due on the first day of school. This practice work will be checked in class.**

### **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 school.**

Place Value of Whole Numbers

Addition and Subtraction of Whole Numbers

Multiplication of Whole Numbers x One and Two-digit Multipliers

Division of Whole Numbers with One-Digit Divisors

### **\*Basic Facts**

**\*\*Students need to continue practice of the basic addition, subtraction, multiplication, and division facts throughout the summer. Knowledge and fast recall of these facts are *imperative* to support understanding of mathematical concepts taught in 5th grade.**

### **Basic Facts Practice links**

<http://www.pearsonschool.com/index.cfm?locator=PS1zHe>

<http://www.multiplication.com>

<http://www.honorpoint.com>

[http://www.harcourtschool.com/activity/thats\\_a\\_fact/english\\_K\\_3.html](http://www.harcourtschool.com/activity/thats_a_fact/english_K_3.html) (Play "That's A Fact!" You can time yourself!)

If you go to any links and see blocked plug-in, you need to update your adobe flash.

### **Facts Speed Practice**

If you would like to practice speed drills at home, you may print practice sheets from the following sites.

<http://www.math-drills.com>

<http://www.mathscore.com>

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. An example has been worked for each concept.

**Whole Numbers:**

**Session 1: Place Value**

Write the value of the underlined digit.

- 1) 498 \_\_\_\_\_ 2) 67,238 60,000 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.

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

16)  $\frac{\quad}{595,602}$      $\frac{\quad}{595,603}$      $\frac{\quad}{596,602}$

17)  $\frac{\quad}{27,468,904}$      $\frac{\quad}{7,468,409}$      $\frac{\quad}{7,486,904}$      $\frac{\quad}{77,468,904}$

### 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    \_\_\_\_\_

Round 3,906,435 to the 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

**Session 4: Addition - Find the sum.**

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

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

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

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

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

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

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

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

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

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

**Session 5: Subtraction - Find the difference.**

$$\begin{array}{r} \overset{9}{8} \overset{10}{10} \overset{10}{10} \\ 1) \quad \overset{9}{8},\overset{10}{10}\overset{10}{10}6 \\ - 7,653 \\ \hline 1,353 \end{array}$$

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

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

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

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

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

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

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

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

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

**Session 6: Rounding and Estimating in Multiplication**  
 Round off to the greatest place value, and estimate the product. Use the space to the right of the problem to write the rounded problem and estimate.

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

$$\begin{array}{r} 400 \\ \times \ 2 \\ \hline 800 \end{array}$$

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

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

$$\begin{array}{r} 4) \ 38,650 \\ \times \ 82 \\ \hline \end{array}$$

$$\begin{array}{r} 40,000 \\ \times \ 80 \\ \hline 3,200,000 \end{array}$$

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

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

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

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

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

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

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

# Session 7: Multiplication - Find the products.

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

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

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

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

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

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

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

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

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

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0}3 \phantom{0}14 \\ \phantom{0}+ \phantom{0}+ \\ \hline 90052 \\ + \ 3151820 \\ \hline 3,241,872 \end{array}$$

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

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

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

## Session 8: Division

Find the quotient.

Be careful to keep your numbers lined up!

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

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

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

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

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

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

$$\begin{array}{r} 5,020 \\ 7 \overline{)35,140} \\ \underline{-35} \phantom{00} \\ 1 \phantom{00} \\ \underline{-0} \phantom{00} \\ 14 \phantom{0} \\ \underline{-14} \\ 0 \phantom{0} \\ \underline{-0} \\ 0 \end{array}$$

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

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



## Session 9: Problem Solving

Use addition, subtraction, multiplication, and division.

Solve each problem. 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?

1,464 fish in all

$$\begin{array}{r} 235 \\ 483 \\ + 746 \\ \hline 1464 \end{array}$$

- 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: Fractions with Like Denominators

Add Fractions with Like Denominators. Simplify the answers.

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

$$\begin{array}{r} 2) \quad \frac{3}{6} \\ + \frac{2}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad \frac{6}{10} \\ + \frac{3}{10} \\ \hline \end{array}$$

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

$$\begin{array}{r} 5) \quad \frac{3}{7} \\ + \frac{3}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad \frac{4}{16} \\ + \frac{11}{16} \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad \frac{3}{15} \\ + \frac{2}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad \frac{2}{18} \\ + \frac{10}{18} \\ \hline \end{array}$$

Subtract Fractions with Like Denominators. Simplify the answers.

$$\begin{array}{r} 9) \quad \frac{7}{9} \\ - \frac{5}{9} \\ \hline \frac{2}{9} \end{array}$$

$$\begin{array}{r} 10) \quad \frac{5}{10} \\ - \frac{3}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad \frac{15}{20} \\ - \frac{5}{20} \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad \frac{12}{13} \\ - \frac{9}{13} \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad \frac{6}{8} \\ - \frac{2}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad \frac{10}{24} \\ - \frac{7}{24} \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad \frac{12}{27} \\ - \frac{3}{27} \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad \frac{11}{21} \\ - \frac{5}{21} \\ \hline \end{array}$$