

Grade 6 to Grade 7 Summer Math Packet

Packet due: The 3rd full day of school

Dear Riverside Students and Parents,

Following an eventful and tumultuous last school year, I know most are looking forward to a stress free summer. I encourage students to practice math by completing this summer packet or completing the listed ixls for the grade levels to keep those skills fresh. These assignments will focus on some of the skills and concepts necessary for success in your grade as well as sharpen skills you have already learned.

Please complete the packet in pencil and make sure your handwriting is legible. If you choose to do the IXL, it's the same criteria we followed during the school year. ( 20 mins or 80%) Do not use a calculator because you will not be allowed to use one in class. If you are stuck on a problem, I've listed some websites below that may be helpful.

Have a fun and safe summer and I look forward to seeing you in August!!!



Ms. DeLanauville

**HELPEFUL APP:**

**"Virtual Nerd Mobile"**

**Requirements:** iOS 6.0 or later; compatible with iPhone, iPad, and iPod Touch

**Features:** Virtual Nerd's on-screen instructors provide clear and approachable explanations; students can mark "favorite" videos so that they can instantly return to them in the future.

**Price:** Free

**HELPEFUL WEBSITES:**

<http://www.khanacademy.org/>

<http://www.aplusmath.com>

<http://funbrain.com>

<http://aaamath.com>

<http://math.com>



Name \_\_\_\_\_

I have checked that the work is completed: \_\_\_\_\_

Parent Signature \_\_\_\_\_

1. Find the products. This page should be completed in 3 minutes no more than 4 minutes.  
I have someone time you. Any multiplication problem you do not know quickly, practice on flash cards.

$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$
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$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 12 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$
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$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$
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$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$
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$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$
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$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$
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2. Find the quotients. This page should be completed in 3 no more than 4 minutes. Practice any problems you do not know instantly. Think of the multiplication fact family. The better you know your multiplication facts the easier division will be.

$$\begin{array}{l} \overline{2)2} \quad \overline{3)9} \quad \overline{8)32} \quad \overline{7)49} \quad \overline{5)10} \quad \overline{4)0} \quad \overline{1)1} \quad \overline{4)8} \quad \overline{2)12} \quad \overline{9)54} \quad \overline{1)3} \quad \overline{1)2} \quad \overline{2)4} \end{array}$$

$$\begin{array}{l} \overline{8)8} \quad \overline{7)63} \quad \overline{8)40} \quad \overline{5)0} \quad \overline{4)4} \quad \overline{4)12} \quad \overline{9)45} \quad \overline{9)63} \quad \overline{6)6} \quad \overline{3)12} \quad \overline{1)7} \quad \overline{3)0} \quad \overline{1)9} \end{array}$$

$$\begin{array}{l} \overline{2)16} \quad \overline{3)3} \quad \overline{3)15} \quad \overline{5)20} \quad \overline{3)18} \quad \overline{3)6} \quad \overline{5)15} \quad \overline{7)0} \quad \overline{9)27} \quad \overline{4)16} \quad \overline{7)21} \quad \overline{4)20} \quad \overline{7)28} \end{array}$$

$$\begin{array}{l} \overline{8)16} \quad \overline{3)21} \quad \overline{9)18} \quad \overline{4)24} \quad \overline{2)6} \quad \overline{1)8} \quad \overline{5)35} \quad \overline{7)35} \quad \overline{3)27} \quad \overline{6)36} \quad \overline{3)24} \quad \overline{2)0} \quad \overline{4)32} \end{array}$$

$$\begin{array}{l} \overline{9)9} \quad \overline{4)36} \quad \overline{6)42} \quad \overline{5)40} \quad \overline{8)64} \quad \overline{7)14} \quad \overline{6)30} \quad \overline{8)56} \quad \overline{1)5} \quad \overline{4)28} \quad \overline{7)56} \quad \overline{8)24} \quad \overline{6)24} \end{array}$$

$$81 \div 9 = \underline{\quad\quad\quad} \quad 48 \div 6 = \underline{\quad\quad\quad} \quad 18 \div 6 = \underline{\quad\quad\quad} \quad 42 \div 7 = \underline{\quad\quad\quad}$$

$$10 \div 2 = \underline{\quad\quad\quad} \quad 54 \div 6 = \underline{\quad\quad\quad} \quad 36 \div 9 = \underline{\quad\quad\quad} \quad 45 \div 5 = \underline{\quad\quad\quad}$$

$$72 \div 8 = \underline{\quad\quad\quad} \quad 8 \div 2 = \underline{\quad\quad\quad} \quad 72 \div 9 = \underline{\quad\quad\quad} \quad 6 \div 1 = \underline{\quad\quad\quad}$$

$$25 \div 5 = \underline{\quad\quad\quad} \quad 5 \div 5 = \underline{\quad\quad\quad} \quad 18 \div 2 = \underline{\quad\quad\quad} \quad 30 \div 5 = \underline{\quad\quad\quad}$$

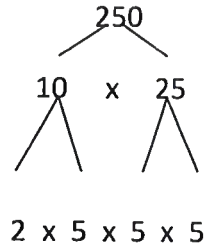
$$12 \div 1 = \underline{\quad\quad\quad} \quad 49 \div 7 = \underline{\quad\quad\quad} \quad 21 \div 3 = \underline{\quad\quad\quad} \quad 30 \div 6 = \underline{\quad\quad\quad}$$



Use Euclid's Ladder (or a factor tree) to write the prime factorization.

$$\begin{array}{l} 2 \overline{)60} \\ 2 \overline{)30} \\ 3 \overline{)15} \\ 5 \end{array} \quad 60 = 2 \times 2 \times 3 \times 5$$

$$\begin{array}{l} 2 \overline{)250} \\ 5 \overline{)125} \\ 5 \overline{)25} \\ 5 \end{array} \quad 125 = 5 \times 5 \times 5 \quad \text{OR}$$



1. 64

2. 100

3. 72

4. 48

5. 36

6. 54

Find the GCF of 24 and 36.

24: 1, 2, 3, 4, 6, 8, 12, 24

36: 1, 2, 3, 4, 6, 9, 12, 18, 36

GCF of 24 and 36 is 12.

**No calculator! SHOW ALL WORK!**

1. 18 and 54

2. 36 and 54

3. 24 and 60

4. 32 and 56

5. 100 and 75

6. 28 and 49

7. 35 and 50

8. 64 and 88

To find an equivalent fraction multiply or divide the numerator and denominator by the same value.

$$\frac{1}{2} = \frac{4}{8}$$

x4

$$\frac{6}{48} = \frac{3}{24}$$

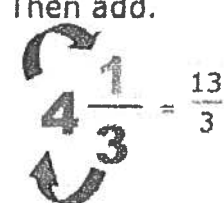
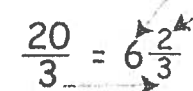
÷ 2

$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$$

Name three equivalent fractions to the one given:

1. $\frac{4}{5}$	2. $\frac{10}{15}$
3. $\frac{1}{7}$	4. $\frac{16}{40}$
5. $\frac{12}{30}$	6. $\frac{6}{8}$
7. $\frac{2}{9}$	8. $\frac{14}{35}$
9. $\frac{18}{28}$	10. $\frac{80}{120}$



<p><i>Multiply the whole number by the denominator and add the numerator.</i></p> <p><i>Keep the same denominator.</i></p>	<p>Then add.</p> <div style="text-align: center;">  </div> <p>Multiply.</p>
<p>Convert <math>\frac{20}{3}</math> to a mixed number</p> <p>Divide the numerator by the denominator</p> <p><math>20 \div 3 = 6</math> plus 2 remainder</p> <div style="text-align: center;">  </div> <p>6 becomes the whole number 2 is the numerator of the fraction as shown 3 is the denominator</p>	

**Convert to Mixed Number or Improper Fractions:**

1. $3\frac{1}{2} =$	2. $\frac{15}{2} =$
3. $7\frac{2}{3} =$	4. $\frac{31}{6} =$
5. $8\frac{3}{5} =$	6. $\frac{74}{9} =$
7. $2\frac{7}{9} =$	8. $\frac{49}{11} =$
9. $12\frac{5}{10} =$	10. $\frac{122}{13} =$

Multiply the numerators	$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$
Multiply the denominators	$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$
Reduce the fraction if necessary	$\frac{6}{20} = \frac{3}{10}$

**NO CALCULATOR! SHOW ALL WORK!**

1. $\frac{1}{3} \times \frac{1}{5} =$	2. $\frac{2}{7} \times \frac{2}{5} =$	3. $\frac{4}{9} \times \frac{1}{2} =$
4. $\frac{3}{8} \times \frac{3}{4} =$	5. $\frac{9}{10} \times \frac{1}{9} =$	6. $\frac{7}{12} \times \frac{2}{5} =$
7. $\frac{6}{11} \times \frac{2}{4} =$	8. $\frac{5}{6} \times \frac{2}{9} =$	9. $\frac{12}{20} \times \frac{3}{7} =$
10. $\frac{5}{13} \times \frac{4}{6} =$	11. $\frac{15}{25} \times \frac{5}{15} =$	12. $\frac{6}{10} \times \frac{3}{9} =$