

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

Middle School: \_\_\_\_\_

**MATH SUMMER ASSIGNMENT  
ALGEBRA 1**

Mathematics is foundational and it is crucial that students maintain certain skills and conceptual understandings to be able to succeed in future mathematics courses. It is for this reason that we have developed numerous summer assignments that are designed to help students review, refresh, and improve upon prerequisite skills to prepare for future courses.

This year, we are requiring students to complete summer assignments to ensure that they are prepared for the year. The assignments were designed by content teachers to help students be better prepared for math work in the fall. Students will be given time in class to clarify questions, practice concepts and will be assessed during the first week of school.

**For Honors and College Algebra 1, the summer assignment will be due the first week of class and graded as a formative assessment by your 9<sup>th</sup> grade Algebra teacher.**

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

Middle School: \_\_\_\_\_




**ALGEBRA 1 SUMMER PACKET**  
For incoming 9<sup>th</sup> graders

**COLLEGE LEVEL: Must complete #1 through #12.**  
**HONORS LEVEL: Must complete every problem.**




Please show ALL your work for each problem.

**FIND THE SUM.** WRITE YOUR ANSWER IN SIMPLEST FORM.

1)  $8\frac{1}{10} + 3\frac{4}{10}$

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

2)  $\frac{2}{6} + \frac{3}{4} + \frac{5}{8}$




Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

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




Middle School: \_\_\_\_\_

**FIND THE DIFFERENCE.** WRITE YOUR ANSWER IN SIMPLEST FORM.

$$3) \frac{11}{15} - \frac{31}{60}$$




Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

$$4) 9\frac{5}{12} - 5\frac{4}{6}$$

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

**FIND THE PRODUCT.** WRITE YOUR ANSWER IN SIMPLEST FORM.




$$5) \frac{3}{8} \cdot \frac{5}{12}$$

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

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




Middle School: \_\_\_\_\_

$$6) 1\frac{1}{5} \cdot 21\frac{2}{3}$$




Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

**FIND THE QUOTIENT.** WRITE YOUR ANSWER IN SIMPLEST FORM.

$$7) \frac{2}{3} \div \frac{4}{7}$$

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

$$8) \frac{1}{9} \div 9\frac{2}{3}$$




Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

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




Middle School: \_\_\_\_\_

**READ CAREFULLY BEFORE SOLVING**




9) SIMPLIFY  $\frac{1}{8} + \frac{1}{7} \cdot \frac{1}{5}$

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

10) If TUCSON'S average rainfall is  $12\frac{3}{4}$  inches and YUMA'S is  $3\frac{4}{5}$  inches. How much more rain, on the average, does TUCSON get than YUMA?

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>




11) Write 4% AND 2.8% as Fractions in simplest form.

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>




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

Middle School: \_\_\_\_\_




12) A sidewalk is built 12 bricks wide by laying each brick side by side.  
How many inches wide is the sidewalk if each brick measures  $3\frac{7}{8}$  inches wide?

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

13) SIMPLIFY  $\frac{\frac{4}{25}}{\frac{5}{7}}$

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>




14) Determine whether the fractions  $\frac{3}{6}$  AND  $\frac{7}{14}$  are equivalent.  
EXPLAIN.

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

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

Middle School: \_\_\_\_\_

15) The measurement around the trunk of a tree just below shoulder height is called its GIRTH. The largest known American Beech tree in the United States has a GIRTH of  $24\frac{1}{6}$  ft. The largest known Sugar Maple tree in the United States has a GIRTH of  $19\frac{5}{12}$  ft. How much larger is the Girth of the largest known American Beech tree than the Girth of the largest known Sugar Maple tree?

Challenging (I don't know.)	Not sure (I think I got it.)	Confident (I got it!)
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>