

Algebra 1 (CP and C)

Topics included in the summer assignment were part of the 8th grade math curriculum. This experience is directed toward helping students be successful in their 9th grade Algebra 1 course.

Please set aside adequate time for the completion of this assignment. It is a great opportunity to have a positive start to the upcoming school year.



1) Complete attached worksheets

- a) Fraction
- b) Integer

2) Complete three 5-question sets of *Virginia State Standards of Learning Practice Tests*

- a) Directions attached below

3) Format

- a) Use pencil
- b) Fraction and Integer worksheets
 - i) NO calculator
 - ii) Show work. If there is not sufficient space on the worksheets, additional paper may be attached.
- c) *Virginia State Standards of Learning Practice Tests*
 - i) Calculator may be used
 - ii) Show work on separate sheet of paper
 - iii) Print out each *Results* page

4) Due date

- a) First day of class

5) Grading

- a) Counts as homework towards the first marking period grade
- b) All work must be shown in order to receive full credit

6) Other

- a) Helpful Math Websites
 - i) http://mathforum.org/math_help_landing.html
 - ii) <http://www.mathpower.com/>
 - iii) <http://www.math.com/homeworkhelp/Algebra.html>
 - iv) <http://mathworld.wolfram.com/topics/Algebra.html>
- b) Helpful Math Videos
 - i) <http://www.brightstorm.com/math/algebra>
 - ii) http://www.mathtv.com/videos_by_topic
 - iii) <http://www.math-videos-online.com/algebra-videos.html>
- c) If you had access to your online textbook during the school year, it is also available to you during the summer.

Fraction Worksheet: Show work in the space provided. If more space is needed, work on notebook paper and attach to the worksheet.

1. $\frac{1}{6} + \frac{3}{8} + \frac{1}{4} =$

2. $\frac{3}{4}$ of 8 =

3. $\frac{8}{9} - \frac{1}{5} =$

4. $\frac{1}{4} + \frac{5}{6} + \frac{3}{8} =$

5. $8\frac{1}{2} + 4\frac{1}{2} =$

6. A garden is $14\frac{1}{2}$ ft by $13\frac{1}{4}$ ft. What is the area of the garden?

7. $2\frac{2}{3} \div \frac{1}{4} =$

8. Solve: $3\frac{1}{2} + x = 5\frac{3}{8}$

9. Paul needs $2\frac{1}{4}$ yards of fabric to make a tablecloth. How many tablecloths can he make from $18\frac{1}{2}$ yards of fabric?

10. $6\frac{3}{5} - 3\frac{1}{3} =$

$$11. \frac{6}{12} \cdot \frac{7}{9} =$$

$$12. 7 \cdot 2\frac{2}{3} =$$

13. What number is $\frac{5}{6}$ of 300?

$$14. 3\frac{3}{4} - \left[\left(1\frac{1}{2}\right) \left(2\frac{2}{3}\right) - \frac{5}{6} \right] =$$

15. Solve: $3\frac{1}{7}d = 88$

$$16. 8\frac{5}{6} - 2\frac{1}{2} - 1\frac{1}{3} =$$

$$17. 3\frac{1}{3} \left(7\frac{1}{5} \div \frac{3}{5} \right) =$$

18. Solve: $-\frac{3}{5}m + 8 = 20$

$$19. \frac{5}{24} - \frac{7}{60} =$$

$$20. 5\frac{1}{6} + 3\frac{5}{8} + 2\frac{7}{12} =$$

Show work in the space provided. If more space is needed, work on notebook paper and attach to the worksheet.

1. $-[-(2)] =$

2. $(-3 - 2) - (5 + 2) =$

3. $-2(-6 - 3) + \frac{0}{5} =$

4. $(-2)(-3)(-4 + 2) - (3 + 1) =$

5. $\frac{-6}{-10} + (-3)(-2) + 3|-4 - 2| =$

6. $\frac{4+2 - 3(2)}{3(2) - 6} =$

7. $4 - \frac{12}{(-3)} + 2 =$

8. $(-3 - 2) - (-6 + 2) =$

9. $\frac{1}{4}(8 - 4) - 5(8 - 2) - 2 =$

10. $\frac{-3(10 - 8) - (-4)}{6 - 3(-3) - 13} =$

$$11. (-3.17)(1.2) =$$

$$12. -2^2 + (-4)^2 =$$

$$13. 3\frac{1}{2}\left(-\frac{1}{5} \cdot \frac{10}{14}\right) =$$

$$14. \left(\frac{7}{8}\right)\left(-\frac{16}{7}\right) =$$

$$15. -3[(-2 - 4) - 3] - 2 =$$

$$16. \frac{-4(5-2) - (-8)}{3 - (-3)(3)} =$$

$$17. (-3 + 5)(2 - 3) =$$

$$18. -5(-3 - 2) + (-2)^3 + (-3 - 4) =$$

$$19. (-7) - [-(-2)] 5 =$$

$$20. \frac{-2(-6) - 2}{-3 + (-7 + 2)} =$$

- Access the Virginia State Standards of Learning assessment site at <http://education.jlab.org/solquiz/index.html> , which will provide the image below:

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Science Education

Education Home
 Teacher Resources
 Student Zone
 Games & Puzzles
 Programs & Events
 Search Education

Virginia State Standards of Learning Science, Math and Technology Practice Tests

Welcome to the [Virginia State Standards of Learning](#) Practice Tests! All of the questions on this site come from test materials released by the Virginia Department of Education and are used here with permission. All questions on this site are copyrighted by the Virginia Department of Education and may not be used by other persons or organizations without their permission.

The SOL Practice Tests support **strand selection** and **non-random tests**. Read this page for details.

Are you experiencing problems with the SOL Practice Tests? Do you have questions about the SOL Practice Tests? If so, **please read the [Frequently Asked Questions page](#)** before contacting us.

How many questions would you like?

5
 10
 20
 40

Which question sets would you like to use? You can choose more than one.

Math 2*
 Science 3
 Math 3
 Math 4*
 Science 5
 Math 5
 Technology 5
 Math 6
 Math 7
 Science 8
 Math 8
 Technology 8
 Biology
 Chemistry
 Earth Science
 Algebra I
 Algebra II
 Geometry

- Check 5 questions and Math 8 level.
- Select *More options, please!*

How many questions would you like?
 5
 10
 20
 40

Which question sets would you like to use? You can choose more than one.

Math 2*
 Science 3
 Math 3
 Math 4*
 Science 5
 Math 5
 Technology 5
 Math 6
 Math 7
 Science 8
 Math 8
 Technology 8
 Biology
 Chemistry
 Earth Science
 Algebra I
 Algebra II
 Geometry

More options, please!



- On the Test Year Selection Page, select *2004*.
- Then, select *Next options page, please!*

Test Year Selection Page

Since standards are realigned from time to time, you may wish to exclude older test questions. Select the years you would like your questions to come from:

8th Grade Math

- All Years
- 2010
- 2009
- 2008
- 2007
- 2004
- 2003
- 2002
- 2001
- 2000



Next options page, please!



- On the Strand Selection Page, select Patterns, Functions and Algebra.
- Then, select *Next options page, please!*

Strand Selection Page

Each test can be broken into 'strands' - questions that focus on specific skills. Please select the strands that you would like to use:

8th Grade Math

- All Strands
- Number and Number Sense
- Computation and Estimation
- Measurement and Geometry
- Probability and Statistics
- Patterns, Functions and Algebra



Next options page, please!

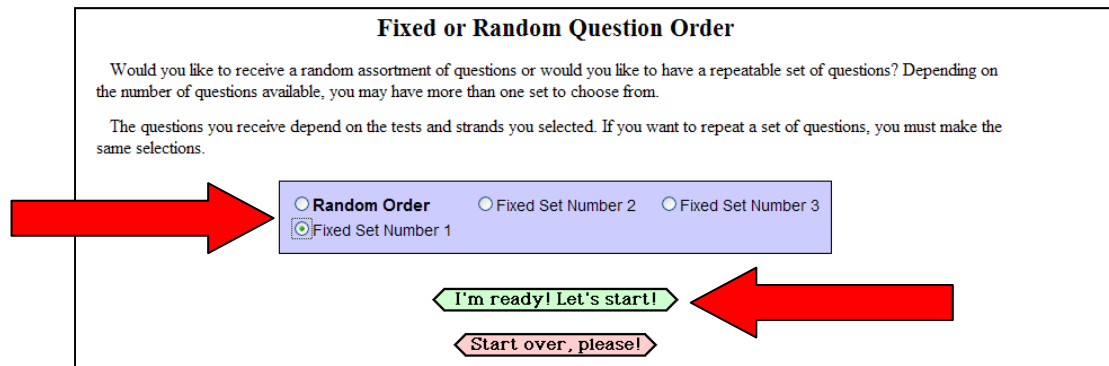
- On the Fixed or Random Question Order, select *Fixed Set Number 1* for the first practice and *Fixed Set Number 2* for your second practice.
- Then, select *I'm ready! Let's start!*

Fixed or Random Question Order

Would you like to receive a random assortment of questions or would you like to have a repeatable set of questions? Depending on the number of questions available, you may have more than one set to choose from.

The questions you receive depend on the tests and strands you selected. If you want to repeat a set of questions, you must make the same selections.

Random Order Fixed Set Number 2 Fixed Set Number 3
 Fixed Set Number 1

- Answer the 5 questions of each set. After each set is completed, a Results page appears.
- Enter your name in the space provided at the bottom of the Results page.
- Select *Add my name to this report, please!*
- Print out the Results page.
- Submit both Results pages to your new math teacher on the first day of class.