

Summer Math Activities for Students Entering Grade 7

Dear Student / Parent / Guardian:

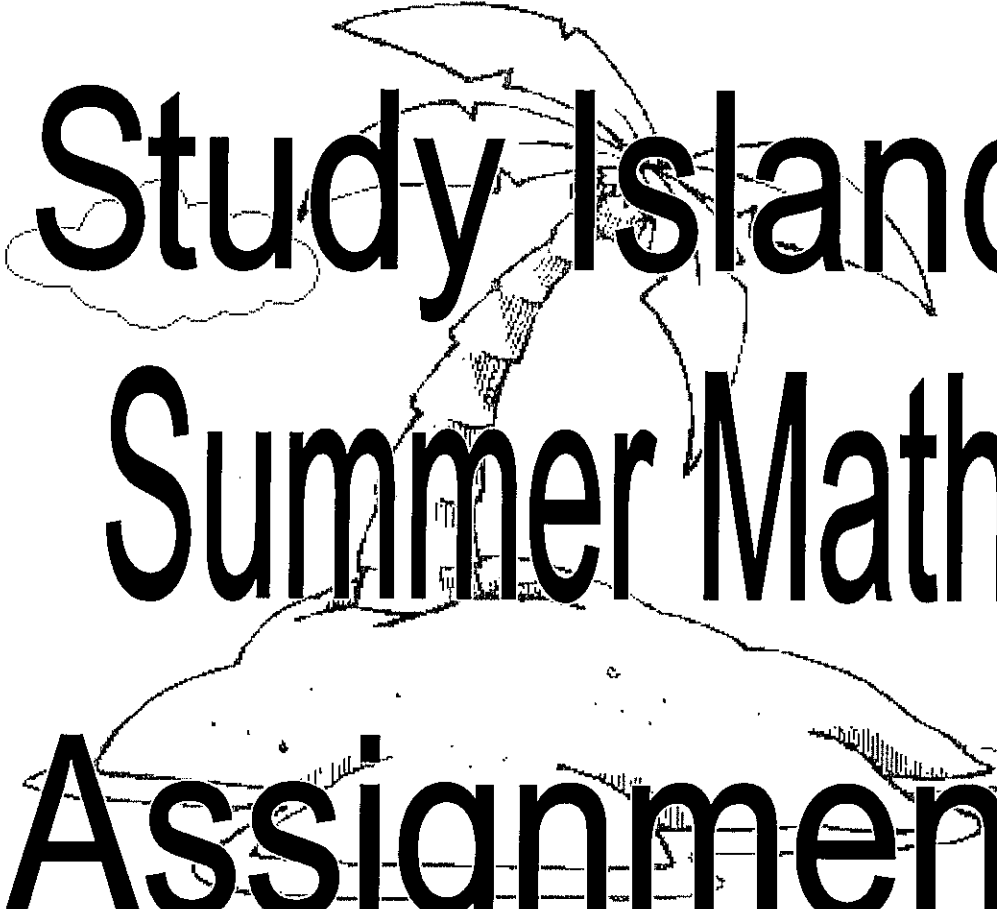
The following problems and websites are designed to allow you to practice your math skills throughout the summer in a fun way! Your assignment is to solve the attached problems and complete the grade 6-7 assignment on Study Island. Your teacher will collect your packet of problems and the Individual Summary Report print out of your results from Study Island during the first week of school in September. This will be the first grade of the new school year! *If you are new to Clifton School District, you will not be able to complete the Study Island Summer Assignment but you must complete the attached problems!*

The following websites can be a resource for you to complete your assignments:

- Adding Numbers with Different Signs: <https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-add-and-sub-integers/v/adding-integers-with-different-signs>
- Adding and Subtracting Negative Numbers: <https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-sub-neg-intro/v/adding-and-subtracting-negative-number-examples>
- Number Equations and Number Lines: <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-add-and-subtract/modal/v/integer-equations-to-describe-diagram>
- Subtracting a Negative = Adding a Positive: <https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-sub-neg-intro/v/why-subtracting-a-negative-equivalent-to-adding-a-positive>
- Intro to Negative Numbers: <https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-neg-num-intro/v/negative-numbers-introduction>

Students who do not have computer access can go to the Clifton Public Library and request a Library Card that will grant them internet access. An electronic list of these websites is also posted on the Clifton website, <http://clifton.k12.nj.us/>

Enjoy your summer vacation!!!



Study Island Summer Math Assignment

PLEASE NOTE: If you are a new student to the district, you WILL NOT be able to complete this part of the Math Summer Packet because you have not been enrolled in Study Island.

Student Name _____

Parent Signature _____

(I am aware that this assignment is due the first day of school in September to my child's math teacher.) *If packet is lost, please log onto www.clifton.k12.nj.us for an additional copy.

A portion of your summer Math packet is going to consist of Study Island assignment. Your teacher has posted an assignment on your Study Island account for you to complete. In order to complete the assignment, you must do the following:

- @ Log into www.studyisland.com
- @ Click on "Log in" → Enter *user name* and *password*
(User name is your ID#@cps and password is clifton)
- @ Click on "Summer Math Assignment" to view the list of assignments to complete

To receive full credit for this assignment, you must complete 3 out of the 10 topics listed.

Follow these steps to complete each assignment:

- @ Click on the assignments you choose to complete
- @ You can choose "Game Mode" or "Practice Mode". This choice is highlighted in green.
- @ Click "Next" to begin assignment
- @ Click on "End Session" when you are notified that all 10 questions have been completed.
- @ **Parents Please Note:** In order to receive a blue ribbon, students must achieve a score of 70% for each topic. This is not required for completion of the assignment, however, students should score at least 60% for each set of 10 questions. If you choose to do over the number of questions assigned, please do not attempt to have students complete more than 30 questions in a single topic assigned for the summer.
- @ **WHEN YOU'RE DONE WITH YOUR ENTIRE SUMMER ASSIGNMENT, PLEASE PRINT YOUR INDIVIDUAL STUDENT REPORT AND BRING IT TO YOUR TEACHER.**
 - **CLICK ON MY REPORTS**
 - **CLICK ON INDIVIDUAL STUDENT REPORT**
 - **SELECT YOUR PROGRAM: 6TH GRADE NJ STANDARDS MASTERY**
 - **SELECT YOUR SUBJECT: MATH (STUDENT LEARNING STANDARDS)**

○ **CLICK ON VIEW REPORT--RIGHT CLICK ON THE SCREEN AND SELECT PRINT. THIS WILL PRINT YOUR INDIVIDUAL STUDENT REPORT.**

If needed, there is a red HELP tab on the top right to help navigate through any issues you may come across.

Make sure to try your personal best when completing each assignment. You have access to the scratch pad, highlighters, calculator, and timers if you choose to use them. Take your time and have fun!

Additional Practice *(continued)*

Investigation 1

Accentuate the Negative

For Exercises 11–15, find two numbers that meet the given conditions.

11. Both numbers are less than 10.
The distance between the two numbers on the number line is 14.

12. Both numbers are greater than -15 and less than 5.
One number is 6 greater than the other number.

13. One number is -35 .
The distance between the two numbers on the number line is 20.

14. The numbers are opposites.
The distance between the two numbers on the number line is 18.

15. The first number is the opposite of -17 .
The second number is less than the first number.
The distance between the two numbers on the number line is 9.

For Exercises 16–20, use the following information: At 10:00 A.M. on a winter day in Fairbanks, Alaska, the temperature was -12°F . Find the temperature after each of the following temperature changes.

16. Between 10:00 A.M. and noon, the temperature rose 10°F .

17. Between noon and 3:00 P.M., the temperature rose 15°F .

18. Between 3:00 P.M. and 6:00 P.M., the temperature dropped 13°F .

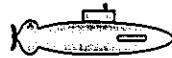
19. Between 6:00 P.M. and 9:00 P.M., the temperature dropped 26°F .

20. Between 9:00 P.M. and midnight, the temperature changed by -19°F .

Additional Practice *(continued)***Investigation 1****Accentuate the Negative**

For Exercises 21–25, use the sketch below, which shows a submarine cruising at a depth of 100 meters below the surface. In your answers, represent the submarine diving deeper as a negative number and rising closer to the surface as a positive number.

ocean surface



depth = 100 m



ocean floor

21. If the submarine moves from its depth of 100 meters to a depth of 75 meters, what is the change in its depth?

22. If the submarine dives from a depth of 100 meters to a depth of 180 meters, what is the change in its depth?

23. If the submarine surfaces from a depth of 180 meters, what is the change in its depth?

24. The submarine is cruising at a depth of 50 meters, then dives 75 meters, then ascends (moves in the direction of the surface) 60 meters, and then dives 45 meters. What is the submarine's final depth?

25. The submarine is cruising at a depth of 65 meters. Then it dives 15 meters, ascends 55 meters, and then dives 75 meters. At this final position, what is the change in depth from its initial position?

Additional Practice *(continued)*

Investigation 1

Accentuate the Negative

For Exercises 26–30, describe the chips that were on the chip board before the given action took place. Then write a number sentence that shows what happened on the chip board.

26. 7 black chips are added. Now there are 8 black chips and 3 red chips on the board.

27. 5 red chips are added. Now there are 8 black chips and 12 red chips on the board.

28. 2 black chips and 2 red chips are added. Now there are 5 black chips and 3 red chips on the board.

29. 5 black chips and 8 red chips are added. Now there are 7 black chips and 8 red chips on the board.

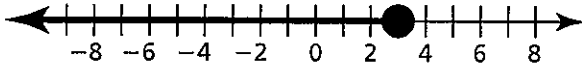
30. 6 black chips and 8 red chips are added. Now there are 6 black chips and 11 red chips on the board.

Additional Practice: Digital Assessments

Investigation 1

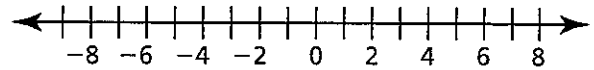
Accentuate the Negative

31. Which inequality represents the set of numbers represented by this number line?



- $x \leq -3$
- $x < -3$
- $x > 3$
- $x \geq 3$
- $x \geq 3$
- $x \geq -3$

32. In a trivia contest, Taliyah answered six questions correctly to earn 6 points. Then she answered two questions incorrectly and lost 2 points. Circle the terms that show the correct steps and final position on the number line.



Start at 0. Then

add
subtract
multiply
divide

 6 by moving

6 units

to the left
to the right

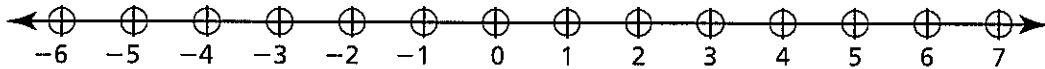
. Then subtract 2 by moving 2 units to the left. The final

position is

0
-6
2
4

.

33. Shade the circles that show the locations of -6 and its opposite on the number line.



34. Order the numbers on the tiles from least to greatest.

