



For this project we will be looking at several websites and recording our answers/work as indicated on this worksheet. Since these will be all internet sites, you will be able to complete the work at home if you do not finish in class using your own computer. If you do not have the internet available you may go to the library and complete the work there as needed.

You will have to open the Internet BROWSER by clicking on the blue "e" on your desktop. Once that opens access the Guilford High School website and select DEPARTMENTS. Choose the MATH DEPARTMENT and from the menu on the left select "LINKS". This will bring up "COOL MATH SITES". We will be selecting various websites from this listing.

Part 1: The first project here will be #1 on the list: "Solving Equations". Select this and wait for the Java applet to load the program. You will notice a big white window with 20 circles at the bottom. These circles are the pretyped equations some of which we will solve.

To solve the problems we will be using the red boxes above and typing in the correct steps on the right of the window. The program will "DO" the step we ask it to do.

This is a program originally from The Netherlands and there are some notations that they use that are different from ours. For example the red box \div is used for division. The $\overline{\square}$ is used to eliminate parentheses and the $\square\square$ is used to combine like terms.

The first problem is: $5x - 6 = 2x - 18$
 Since we would first subtract $2x$ from each side. We simple click on the subtract box $-$ and in the little blank box \square type $2x$ like this: $\square 2x$. Then press the enter key and your screen will show the results AFTER the $2x$ is subtracted from each side.
 It should now say: $3x - 6 = -18$
 We would then ADD 6 by clicking the red $+$ and typing in $\square 6$
 After pressing the enter key is says: $3x = -12$
 Now press \div for divide and type in $\square 3$. Press the enter key and you will see the solution. $x = -4$

Continue to do the problems and record your answers below.

- 1. _____ 2. _____ 3. _____
- 4. _____ 5. _____ 6. _____
- 7. _____ 8. _____ 9. _____
- 10. _____ 11. _____ 12. _____
- 13. _____

To type in fractions you will use the gray box that looks like this:

- $\left| \frac{\square}{\square} \right|$ 14. _____ 15. _____

Part 2: For this part we will be typing in our own equations using the same program. To do this use the gray box on the lower left:

Make an equation yourself

When you click on this you will get a new smaller white window where you type in the equation. When you have typed in the problem - click on the red ADD button and solve using the same steps as in Part 1.

We will be using our textbooks page 799 for these problems. Type in an solve each of the problems listed below - then record your answers for each.

- 17. _____ 19. _____ 20. _____
- 21. _____ 22. _____ 24. _____
- 28. _____ 29. _____ 30. _____

In The Netherlands (where this program is running from) and some other European countries it is customary to use a comma in place of a point which we use in the US. Therefore 2.5 is written as 2,5. Although this looks unusual to us - it is common for people in those locations.

Now do these problems which will have decimals in them (notice the comma notation the program uses)

- 32. _____ 34. _____ 35. _____

Part 3: For the next part we will be reviewing our integer operations. Although this will be very easy to many of us - it is a skill which we will be using all year - actually your entire life - so we don't want to get rusty at it.

Click on the BACK choice from the upper left menu of your browser. Then from the "COOL MATH SITES" list select #2 - Integer Practice. There are 10 problems for you to complete here.

Record the number that you got correct. _____

Part 4: The last part is another integer operation practice in the form of flash cards. Click on BACK again and select #3 - Integer Practice 2. Then click on the "Click here to begin>>" box and complete the cards. Say the answer to yourself and click on "FLIP". If you were right click "REMOVE CARD" - if not "TRY AGAIN LATER"

Record the number of cards completed correctly: _____