Augusta Christian Schools

HONORS ALGEBRA 1

Summer Work

Please follow all the instructions. Failure to follow all directions will result in a zero on this assignment.

1. You must show all of your work for each problem and circle your answers.
2. Write all work neatly in the space provided for each problem.
3. You may turn in additional paper if you needed more space to work out a problem.
4. You may not use a calculator.
5. You may not google or use any other math-based software.
6. Use only your brain and a pencil.
7. At the end of the assignment, please rate the difficulty level and sign the printed statement.
8. Be sure your name is on the assignment.
9. Turn the assignment in at orientation.

Student's Name: _____

Honors Algebra 1 Summer Work

State the opposite of each number.

1. 17
2. -9
3. -1.3
4. $\frac{1}{2}$

Perform the indicated operations.

5. $|12.46 - 3.89|$
6. $|-9| + |-4|$

7. Evan knows that his family is staying at a hotel off of exit 59. If they just passed mile marker 182, how many more miles do they need to travel before they stop for the night?

Add.

8. $3 + 21$
9. $-13 + 32$
10. $26 + (-28)$
11. $-7 + (-8)$
12. $6 + (-6)$
13. $4 + 0$
14. $-126 + 35$
15. $-14 + (-7)$
16. $\frac{4}{7} + (-\frac{11}{7})$
17. $-\frac{2}{15} + \frac{3}{5}$
18. $\frac{1}{7} + \frac{14}{5}$
19. $-\frac{12}{21} + (-\frac{10}{3})$

Subtract.

20. $3 - (-2)$
21. $4 - 5$
22. $-12 - 5$
23. $-8 - (-2)$
24. $7 - (-3)$
25. $6 - 8$
26. $-83 - 47$
27. $-27 - (-41)$
28. $\frac{3}{5} - \frac{7}{2}$
29. $-\frac{2}{9} - (-\frac{5}{9})$
30. $\frac{3}{8} - \frac{11}{16}$
31. $-\frac{3}{4} - (-\frac{8}{9})$

Multiply.

32. $3(-2)$ 33. $7(8)$ 34. $-4(-6)$ 35. $79(-8)$

36. $-41(-7)$ 37. $4(9)$ 38. $3(-7)(6)$ 39. $-10(-2)(-4)(-8)$

40. $\frac{4}{7}\cdot\frac{5}{12}$ 41. $-\frac{18}{35}\cdot\frac{7}{16}$ 42. $-\frac{1}{6}\cdot\left(-\frac{18}{19}\right)$ 43. $-\frac{1}{10}\cdot\left(-\frac{15}{4}\right)$

Divide.

44. $27\div3$ 45. $-56\div7$ 46. $36\div0$ 47. $0\div(-37)$

48. $(-20)\div(-4)$ 49. $\frac{-72}{9}$ 50. $14\div2$ 51. $\frac{-864}{-36}$

52. $\frac{4}{5}\div\frac{9}{10}$ 53. $-\frac{4}{9}\div\frac{8}{11}$ 54. $-\frac{1}{4}\div\left(-\frac{9}{16}\right)$ 55. $\frac{5}{11}\div\left(-\frac{3}{22}\right)$

Translate each phrase into a numerical expression. Then, simplify your expression.

56. The sum of two and seven

57. The difference of six and two

58. The product of the nine and the opposite of two

59. The quotient of twelve and four

Solve.

60. If the temperature on January 5 increased from $-\ 3°F$ to $14°F$, how much did it increase?

61. Mike, Melissa, and Matt each picked $\frac{2}{5}$ of a gallon of strawberries. How many gallons of strawberries did they pick altogether?

Evaluate the following exponential expressions.

62. 4^3 63. 1^7 64. $(-\ 2)^4$ 65. 3^3

Use order of operations to evaluate each expression.

66. $5 + 3 \cdot 4$ 67. $10 + 7 - 3 \cdot 2$ 68. $1 + (-\ 7)^2 \cdot 2 - 50$

69. $5 + 4(-\ 3 + 7)$ 70. $7 - 3^2 - 1 + 4^3 \div 2$ 71. $6 \cdot 3 \div (5 + 4) + 1 - 6$

On a scale from 1 to 10 (1 being extremely easy and 10 being extremely difficult), how difficult was this assignment? _____

Statement: "I did this work on my own and did not copy answers from any source."

Signed: _____