Algebra I Homework #4

- 1) Simplify: -|-1-3|-2|-5+2|-|6|
- 2) Turn $1\frac{3}{4}$ % into a fraction.
- 3) Simplify: $\frac{-20 \div 5(-1-1)^2 (-3+1) 2^3}{-7^0 (-2-1)^2 4 (-1-1)^3}$
- 4) Simplify: $\frac{-4a-c^3}{-y^2-x}$ if a = -2, c = -1, x = -6, and y = -3
- 5) Simplify: $\frac{5}{24} + \frac{7}{54} \div \frac{40}{72} \frac{1}{18}$
- 6) Translate and simplify: Five less than the sum of a number and seven
- 7) Solve: $-3(2x-5)-4x-(-3-1)^2=-6^0-4(3x-1)-7-5x$
- 8) 36 is what percent of 20?
- 9) Translate and simplify: The product of six and eight more than the quotient of a number and three
- 10) 24 percent of what number is 42?
- 11) Solve: 81-48x=153
- 12) Translate and simplify: A number decreased by the difference between the number and twelve
- 13) Solve: $-18 \div 6(-1-2) 2(3x-4) 5x 4^2 = 5(3x-7) (-1-1)^3$
- 14) 72 is 18 percent of what number?
- 15) Translate and simplify: Nine more than the product of six and five less than a number
- 16) 54 is what percent of 72?
- 17) Solve: $-3(2x-5)-(-4x-3)=-2(3x-8)^0-5(6x-3)-3^2$
- 18) Translate and simplify: Seven less than the difference between six times a number and eight
- 19) 16 percent of what number is 80?
- 20) Solve: $-(-3x+1)-(-1-2)^2-2x=4(5x-7)-6 \div 3(-1-1)-1^8$

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