

## Algebra I Homework #2

- 1) What are the whole numbers less than or equal to 6?
- 2) Write out in words how you would say  $5 < x$
- 3) Simplify:  $|-4-1|-|-3+2|-5|-3|$
- 4) Simplify:  $-3^2 - [ -(-4+1) + 3^3 - 12 \div 6(-1-1) ] - 7^0$
- 5) Simplify:  $-(-1-1)^4 - 18 \div 9(-1-1) - (54 \div 9(6))^0 - 1^8$
- 6) Simplify:  $\frac{5}{54} - \frac{1}{72}$
- 7) Simplify:  $\frac{81}{48} \cdot \frac{64}{54} \div \frac{72}{80}$
- 8) Simplify:  $\frac{144}{49} \left( \frac{5}{18} - \frac{1}{12} \right)^2 - \frac{7^0}{8}$
- 9) Simplify:  $\frac{9^0 - (-1-1)^3 - 20 \div 4(-2-3)}{-2^4 \div 8(-1-1) - 1^5 - (-1-2)^2}$
- 10) Simplify:  $5.4863 + 387.009 - 23.8902$
- 11) Simplify:  $54.786(394.87)$
- 12) Simplify:  $3.0256 \div .125$
- 13) Turn  $5\frac{1}{4}\%$  into a fraction.
- 14) Simplify:  $\frac{9}{686} + \frac{5}{147}$
- 15) Simplify:  $\frac{18}{27} \div \frac{96}{128} \cdot \frac{72}{81}$
- 16) Simplify:  $\frac{-3^2 - 12 \div 4(-1-2) - 5^0}{18 \div 6(-4+1) - (-2-1)^2}$
- 17) Simplify:  $\frac{6^2}{24} - \frac{30}{62} \left( \frac{7}{15} + \frac{1}{20} \right) + \frac{15}{12} \div \frac{45}{16}$
- 18) Turn  $\frac{3}{5}\%$  into a fraction
- 19) Simplify:  $\left( \frac{5}{8} - \frac{1}{6} \right)^2 \div \frac{242}{144} + \frac{3}{8}$
- 20) Turn  $3\frac{3}{8}\%$  into a fraction.

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