Pre-Algebra Homework #6

1) Simplify: $9 - 4 + 2 - 5 - 1 + 7 - 2 - 8 - 3$

2) Simplify: $231{,}040{,}161 - 15{,}887{,}998$

3) Find the product of 8,967 and 65,438

4) Simplify: $-54 \div 9\left|-4-2\right| - 3\left|-1-1\right|^3$

5) Simply: $\sqrt[3]{343}$

6) Simplify: $3(2-5)^3 \div 9(-1-2) - 9^0$

7) Simplify: $\dfrac{4620}{1710}$

8) Simplify: $\sqrt[3]{\dfrac{1331}{2744}}$

9) Simplify: $\dfrac{8}{27} - \dfrac{1}{18} + \dfrac{3}{10}$

10) Simplify: $\dfrac{35}{24}\left(\dfrac{7}{12} - \dfrac{1}{20}\right) \div \left(\dfrac{7}{6}\right)^2$

11) Convert $13\dfrac{11}{19}$ to an improper fraction.

12) Simplify: $\dfrac{\dfrac{9}{32} - \dfrac{5}{24}}{\dfrac{1}{18} + \dfrac{7}{48}}$

13) Write fifty two million eight and three hundred-thousandths in decimal notation.

14) Simplify: $.512 \div 3.7$

15) If Ben walks 6.2 miles on Monday, 4.91 miles on Tuesday, and 3.807 miles on Wednesday, how far does Ben walk?

16) Put the following fractions in descending order: $\dfrac{17}{72}, \dfrac{3}{32}, \dfrac{5}{108}, \dfrac{49}{144}, \dfrac{81}{256}$

17) Solve: $\dfrac{420}{324} = \dfrac{225}{108x}$

18) Convert 75 miles per hour into inches per second

19) 24 is what percent of 108?

20) Solve: $\dfrac{686}{432} = \dfrac{196x}{180}$