Pre-College Algebra Chapter 1 Review

1. Write as a whole number using digits: two hundred five thousand, six hundred seventeen.

2. Round the above answer to the nearest ten thousand.

3. Simplify: $(-4)^2$

4. Simplify -4^2

5. Simplify: $-32 \div 2 \cdot (8-6) - 2^3$

6. Multiply: $3\frac{1}{3} \cdot 4\frac{3}{5}$

7. Convert to a decimal: $\frac{5}{8}$

8. Convert to a decimal: $4\frac{4}{5}$

9. Convert to a fraction: 0.56

10. Find the prime factorization of 252.

11. Divide: $\dfrac{\frac{3}{4}-\frac{2}{5}}{\frac{2}{3}+\frac{3}{8}}$

12. Divide: $2.87 \div 0.7$

13. Evaluate: $4x^3 - 2|x|\,; When\ x = -2$

14. Evaluate: $(a-b)^2$; when a = -7 and b = -2

15. Evaluate $16x - 2y + 3z; when\ x = -1, y = -4, and\ z = 3$

16. Add: $7\frac{3}{8} + 4\frac{2}{3}$

17. Add: $23.345 + 6.59$

18. Multiply: $(-0.3)(23.87)$

19. Multiply: $(2000)(0.03)(70)$

20. Find the LMC of 21, 56, and 252.

21. A lap around a normal track is 440 yards. If you are participating in a 10K (that is 10 kilometers) fundraiser how many laps around the track you would you have to complete. Note a 10K is 6.21 miles.