Puzzle of the Week Letter Substitutions – 3

Rules:

- 1. A letter represents a digit from 0 to 9, and has the same value throughout a single puzzle.
- 2. No number can start with the digit 0.
- 3. Within a puzzle, different letters must have different values.

THE CHALLENGE: Find the value of A, B, C, and D in these puzzles.

EXPLORATION: Make some letter substitution puzzles for your friends to solve.



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THE CHALLENGE: For A + A + 6 = BB: The largest number B + B + 6 can be is 9 + 9 + 6 = 24, so B is either 1 or 2. A + A + 6 must be an even number, so B = 2. A + A + 6 = 22 means A + A = 16, so A = 8.

So, the answer is 8 + 8 + 6 = 22.

C + C + 6 = D: The only way that C + C + 6 can be less than 10 is if C is 1.

The answer is 1 + 1 + 6 = 8.