Cross-Number

A crossword-like puzzle.　　But you have to fill all cells with numbers.
For example, if the answer is "123(one hundred and twenty three)",
fill 1, 2, 3 from "left to right" or "top to bottom."　　Do not fill 0(zero) in highest positions.

* "An anagram" means rearranged one.

[Down]
Down 1　　A multiple of D10.
Down 2　　＝ A6
Down 3　　D4 × A8
Down 4　　A prime number.
Down 7　　D1 ＋ D2
Down 8　　A8 － 5
Down 9　　An anagram of A1.
Down 10　　All same digits.

[Across]
Across 1　　An even number.
Across 3　　A square of (A5 － A10).
Across 5　　An anagram of A10.
Across 6　　＝ D2
Across 8　　A1 × 6
Across 10　A3 × A11
Across 11　Larger than D4.
Across 12　D4 × 30

[Down]
Down 1　　A4 × 4
Down 3　　A4 ＋ A10
Down 6　　A5 × 4 ＋ 14
Down 8　　D10 × A12
Down 10　　D2 × 6

[Across]
Across 1　　A square number.
Across 4　　A square of A3.
Across 11　A7 × 10
Across 13　A5 ＋ A9