Set operations

S={1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20}

A={3,6,9,12,15,18}

B={5,10,15,20}

C={2,4,6,8,10,12,14,16,18,20}

D{1,2,3,5,7,11,13,17,19}

1. A ∩ C
   1. 2,4,6,8,10,12,14,16,18,20
2. B-D
   1. 10, 15, 20
3. D’
   1. 4,6,8,9,10,12,14,15,16,18,20
4. A-(B ∪ C) = (A-B) ∩ (A-C)
   1. {3,6,9,12,15,18} – ({5,10,15,20} ∪ {2,4,6,8,10,12,14,16,18,20})
      1. {3,9}
   2. ({3,6,9,12,15,18} - {5,10,15,20}) ∩ ({3,6,9,12,15,18} - {2,4,6,8,10,12,14,16,18,20}
      1. {3,6,9,12,18} ∩ {3,9,15}
         1. {3,9}
5. A’ ∪ (A ∩ B)