```
472 /2= 236 remo
  25712 = 128
                   vern 1
                           Laboratory Worksheet #01 25612= 118 remo
             64
                  Vem 0
                 vem 0
          = 32
                  rem 0
                                                                            5912=29 rem1
                             Number Systems Exercise
                ven o
                                                                             2912 = 14 rem1
                          4/2= 2 rem 0
                                            212= | rem 0
                                                                                  1412
                                                                14/2 = 7 \text{ rem } 0
                ven D
                                                112=0 vem 1
       Convert the following decimal numbers to binary:
                                                                           ven 1
                                            1110
               14
         1)
                                                                 312=
                                                                            vem 1
                                                                            vem 1
                                       (D11
                                             1101
                                                                    0 =
         2)
               189
                                                                                94
                                                                                     vem 1
                                    1000
                                            0000 0001
         3)
               257
                                                                                     rem o
                                   0001
                                            [0]
                                                   1000
         4)
               472
                                                                                    vem 1
       Convert the following decimal numbers to hex:
                                        OXE
                                                                                    vem 1
1) remain 13
              189 257 116 = 16 rem 1
                                                                                   vem
                                       nx BD
         6)
                   16/16 = 1 rem D
     11
                                                                                    rem
                                       0 × 101
         7)
               257
                   1/16 = D rem 1
                                                                                    ven 1
                                                                       12=
                                       0×108
               472
                                                              472=29 rem 8
                                                                              10111101
       Convert the following hex numbers to decimal:
                                                             29116=1 rem 13=2
                                           55
                                                             1116=0 ver,
         9)
               0x37
                                           171
        10)
               0xAB
                                           327
               0x0147
        11)
                                           10977
        12)
               0x2AE1
                                                                 3×16 +7
       Convert the following hex numbers to binary:
                                                                  48+7
                                                                               22
                                      0011
                                                 0111
        13)
               0x37
                                                                      10×16 + 11 × 1
                                     1010
                                               1011
        14)
               0xAB
                                                          01(1
                                   0000 0001
                                                                             (60+1)
                                                 0100
               0x0147
        15)
                                                1110
                                  0010 1010
        16)
               0x2AE1
                       8+4+ 1=>12
       Convert the following binary numbers to hex:
                                                                      256+4×16+7
                                       0x2D
        17)
               0010 1101
                                                                          256+ 64+7
             8+2
                                       OX AA
        18)
               1010 1010
            8+4+2 14
                                       DXE3
                                                                             320
        19)
               1110 0011
                                       0x 29B5
                                                                           + 10×162 + 14×16 +1
        20)
               0010 1001 1011 0101
                      8+2+1
                                                                  2,4096+ 2560 + 274+1
       Convert the following binary numbers to decimal:
              0010 1101 |+4+8+3>
                                                                                           10977
                                          45
        21)
                       128 +32+
             286432168421
                                          170
        22)
               1010 1010
             128 6432168421
                                           227
        23)
               1110 0011
                                          10677
                                                                 128 + 64 + 37 + 2+ 1
        24)
               0010 1001 1011 0101
                                                                  128+ 64+ 32+ 3
         When complete, include Worksheet 1 with your Laboratory 1-1 Pre-lab submission.
                   1×213 + 1×211 + 28 + 27+ 25+24+2+1 128+64+35
```

13

