Asyncronas lesson O.1

1) Imagine Seeing four people Standing under a tree, which of the following describes 4 people under a tree?

B: - --

2) How many digits are there in the decimal System?

B: 10

3) How many digits would there being best & System

A 8

4) Write the # 255 as the som of digits times powers of 10 osin vidro 0.1

255= 2×10² +5×10⁰ 5×10⁰

Base-2 or Binary

1) Convert the following benery # to decimal # 5

·1000 1×23 + 6×22 + 0×21 + 0×20 8 + 6 + 0 + 10

1601 1x23 + 0x22 + 0x2 + 1x20 8 + 0 + 0 + 1

1×23 1×22 + 0×21 1×20 - 1101 2) Convert the following decimal # 5: nto binary #3 1.3212 = 1600 16/2 = 85.0 00000 -210 412 212 100 001 1/2 .42/2 = 2110 11010 21/2 = 1001 10/2 = 5,0 5/2 - 211 11/2/ = 011 -1112 = 5rl = 1011 15/2 = 201 1/2 - 611 10001 8/2 = 400 = 2,0

Base 16 or hexaderings 1) How do you write 12: a baxade inal 2 Lets convert # 225 to a heta decirel 123456789 ABCD 255/16 = 15,15 F.F.G.HTJK 15/16 0,15 = FF Base 20 Systems a) $20^{\circ} = 1$ $20^{\circ} = 20$ 400120 - 20,0 20120 100 202 = 400 1120 011 -100 401 ho=2011 C 401 20120 = 110 = 101 1/20 = 1

2 Convert the following # 5 to your best 20-595% 25/20= 15 1120 = 6,1 45120 425170 2115 425 - 115 21/20 = 111 625/20 = 3105625-115 1/20 :001 31/20 = 1/11 1/20 : 011 3