

convert number 1111012 = ?16 Step 1: Divide the binary digits into groups of four starting from the right
0011 1101 Step 2 Convert each group into a hexadecimal digit $0011_2 = 0 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 = 3_{10} = 3_{16}$
 $1101_2 = 1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 1 \times 2^0 = 13_{10} = 13_{16}$ Converting Binary Number to Hexadecimal Number

Data Communications ?Data communications are the exchange of data between two devices via some form of transmission medium such as a wire cable or wireless. ?Delivery -> Correct destination
?Accuracy -> Accurate data ?Timeliness -> Real-time transmission Data Communications ?In simplex transmission, mode communication can take place in only one direction ?An example is TV, Waves we can watch different channels on TV but there is no need to send any type of signals from TV. Another example is line printer ?Telecommunication refers to long-distance communication. The term data refers to information displayed in any way that the parties creating and using the data agree on. ?Full-duplex

Data Transmission Modes ?There are three modes of communication ?It means the sender will always send & the receiver will always receive ?A half-duplex system can transmit data in both directions but only in one direction at a time ?Text ?Images ?Audio ?Simplex ?Half-duplex ?Simplex ?Half-Duplex
??Numbers ?Video Data flow ?