Binary Format

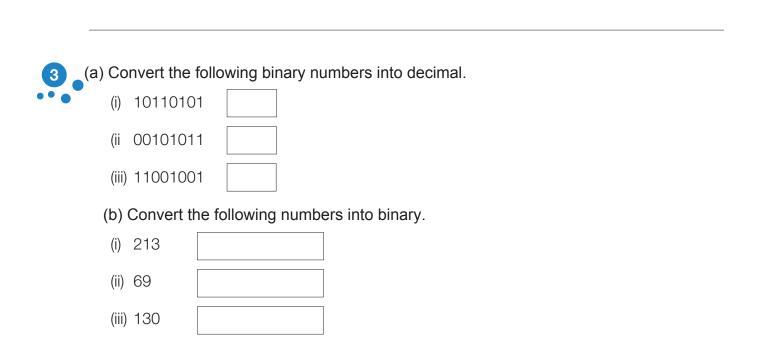
Worksheet 1

Figure 1 shows some common devices. In the spaces provided, state whether they are analogue or digital devices.

Figure 1



Explain why data needs to be converted into a binary format in order to be processed by computers.





Binary Format

Worksheet 1



When a programmer was creating a program to convert decimal numbers into binary, similar to the one in Activity 2, they first wrote some pseudocode to show the logical stages of the algorithm.

Part of the pseudocode is shown below. Complete it by filling in the missing words in the spaces below.

Program ConvertDecimalToBinary

Declare variables

var numberEntered var bitEight = 0 bitSeven = 0 bitSix = 0 etc to... bitOne = 0

Test number entered

if (number entered		255) then
Alert (Number must not be greater than		
255) Exit		
end if		

Calculate bit eight

if (number entered		128) then
bitEight = 1		
numberEntered = n end if	umberEntered -	
Calculate bit seven if (numberEntered		

bitSeven =	
numberEntered =	
end if	

