1. A) 1111111 = (1 × 2⁶) + (1 × 2⁵) + (1 × 2⁴) + (1 × 2³) + (1 × 2²) + (1 × 2¹) + (1 × 2⁰) = 127

Simplified: (2^7)-1  
B) Simplified: (2^16)-1 = 65 535

C) Simplified: (2^32)-1 = 4 294 967 295

D) Simplified: (2^64)-1 = 18 446 744 073 709 551 615

1. A) 12

B) 113

C) 99

D) 155

1. A) M

B) =

C) “ “ (Space)

D) æ

1. Floating point is derived from the fact that there is no fixed number of digits before and after the decimal point; that is, the decimal point can float.