Figure 0.3: Jacquard's loom
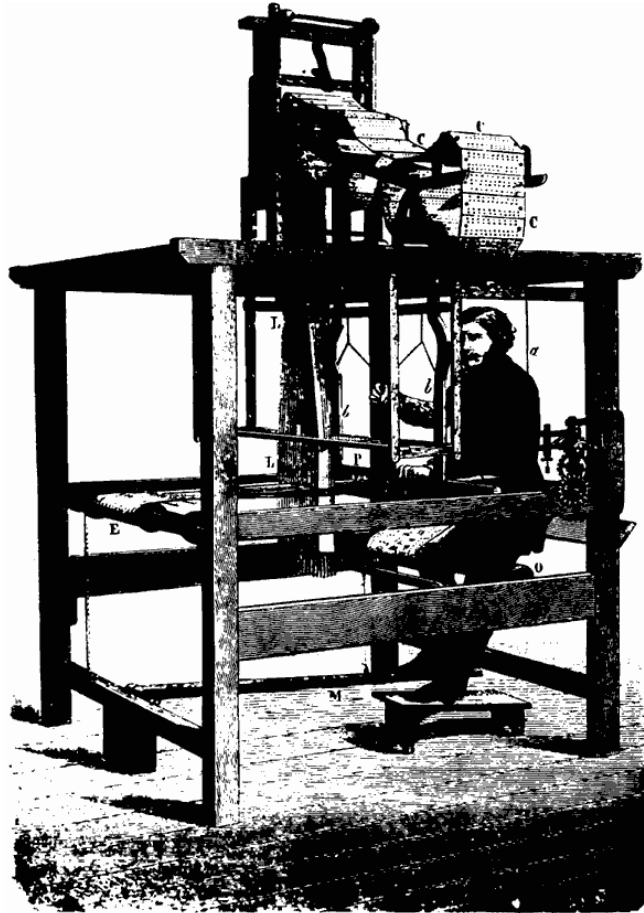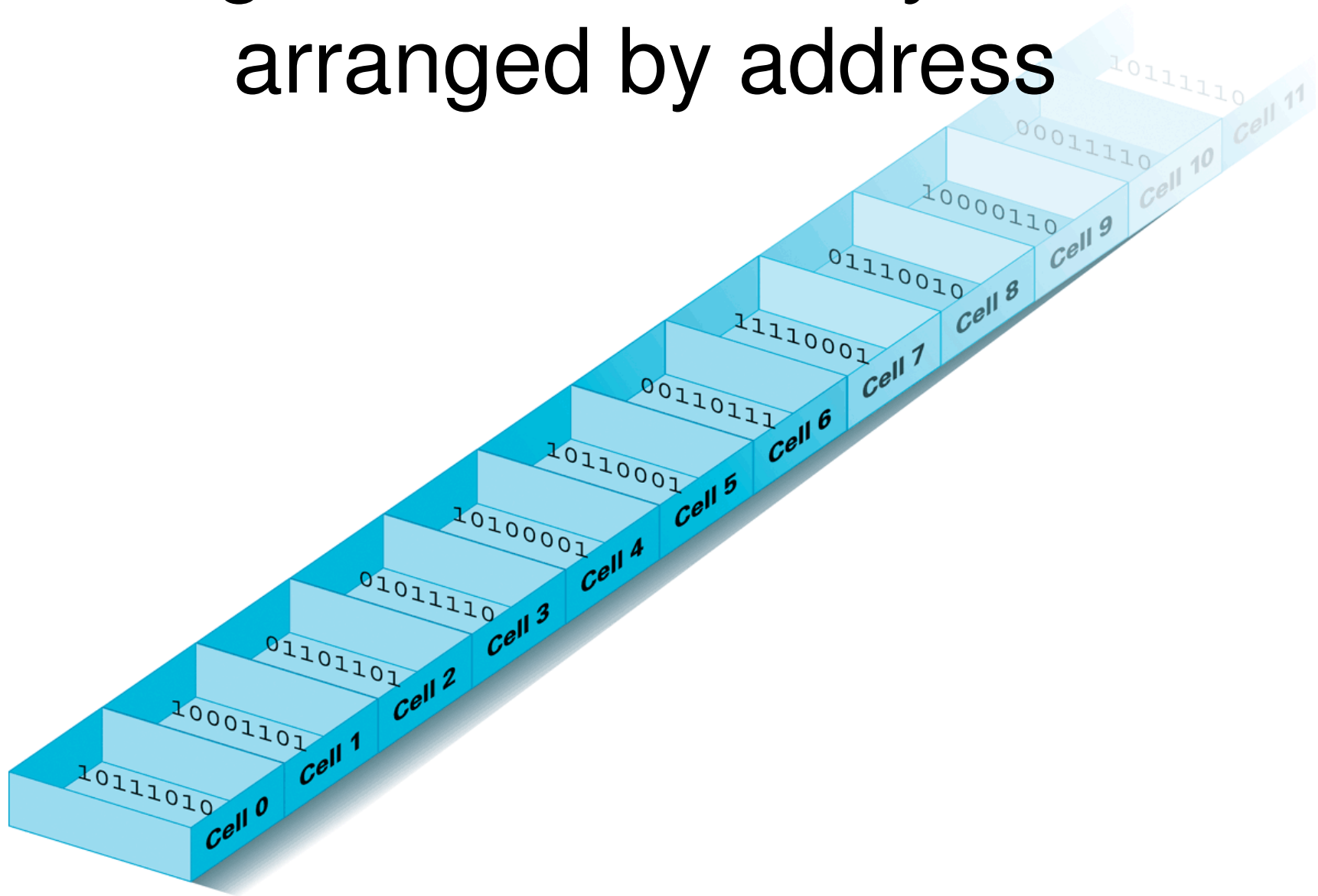
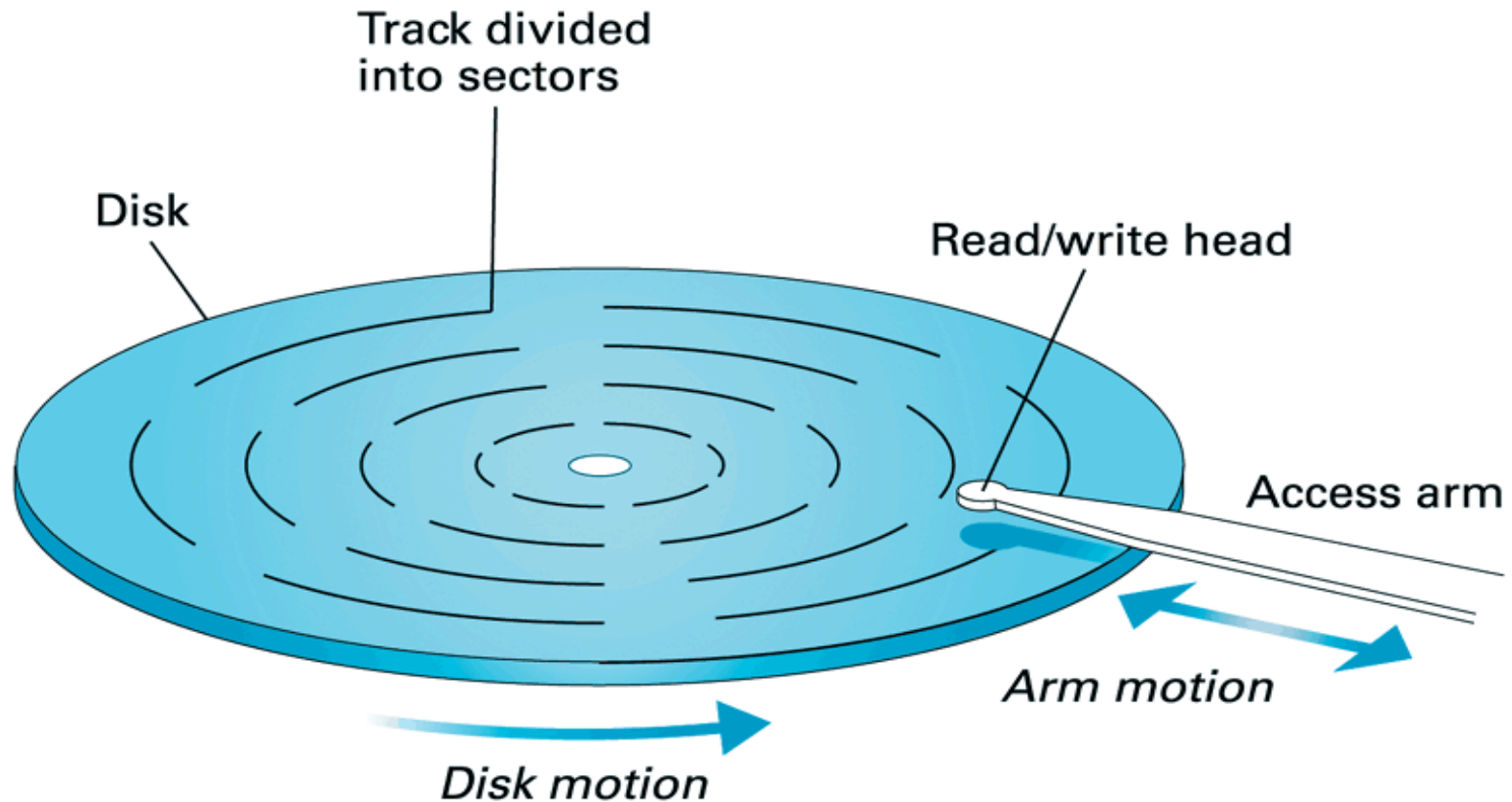# Figure 0.4: The Mark I computer

Figure 1.8: Memory cells arranged by address

Figure 1.9: Memory cells arranged by address

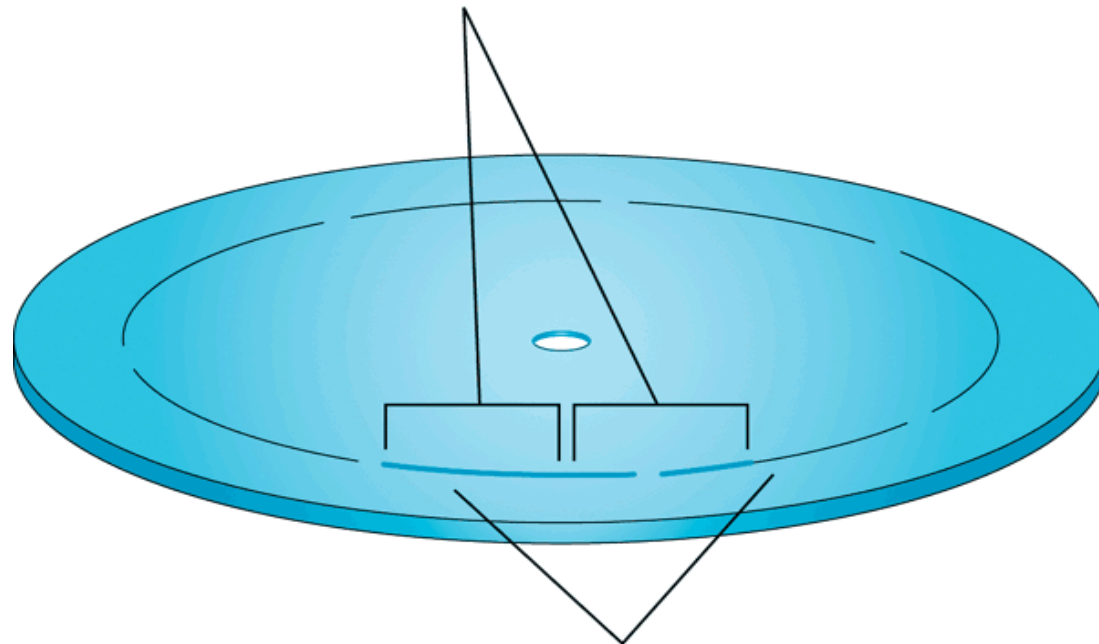Track divided into sectors

Disk

Read/write head

Access arm

Arm motion

Disk motion

Figure 1.10: CD storage format

Data recorded on a single track, consisting of individual sectors, that spirals toward the outer edge

CD

Disk motion
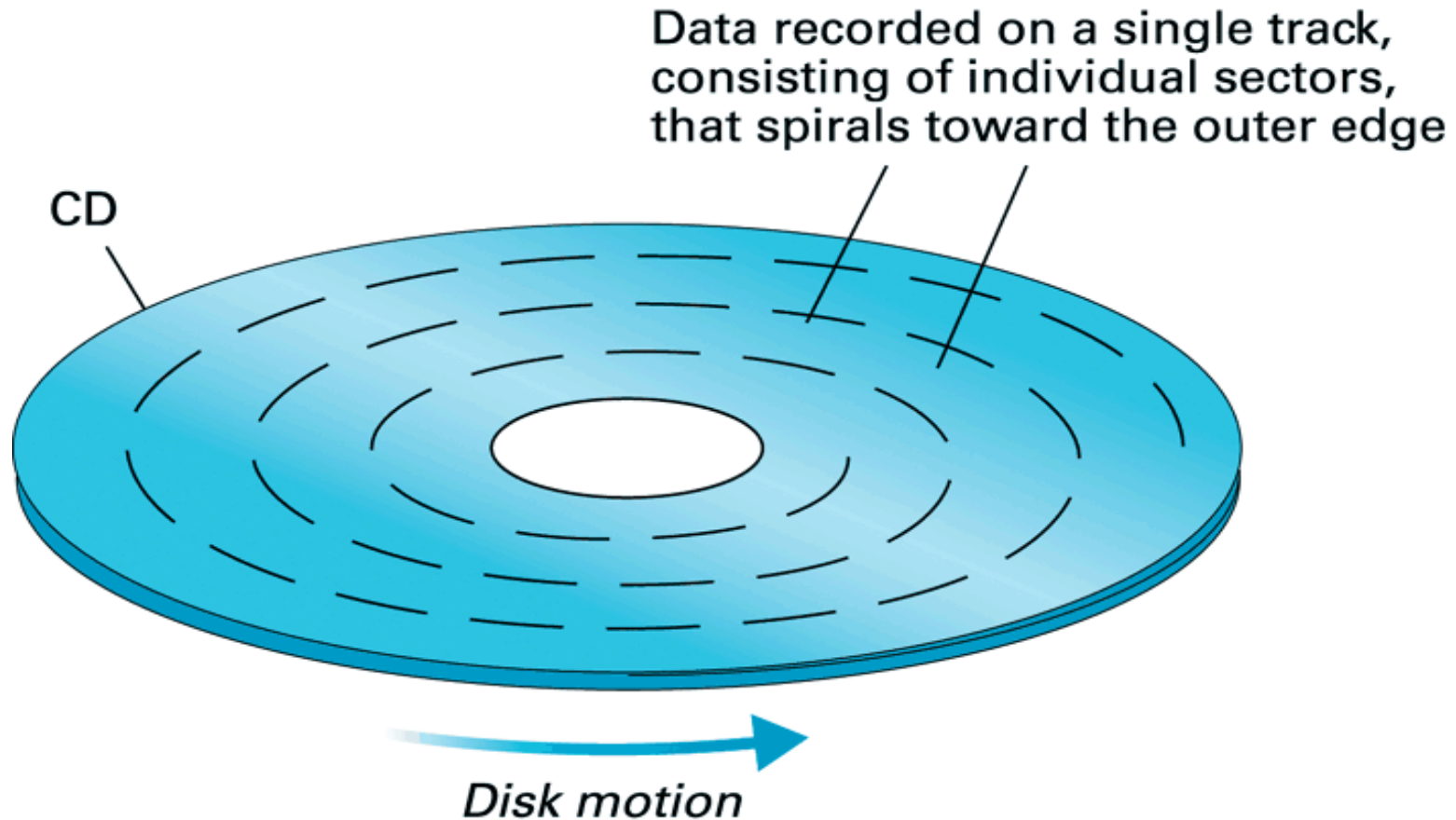
Figure 1.12: Logical records versus physical records on a disk

Logical records correspond to natural divisions within the data

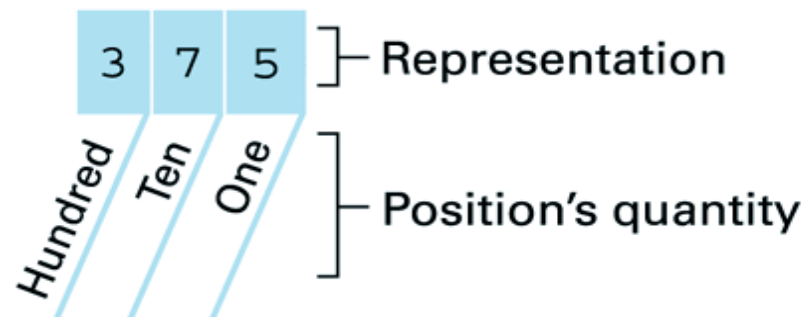Physical records correspond to the size of a sector

Figure 1.13: The message "Hello." in ASCII

01001000	01100101	01101100	01101100	01101111	00101110
H	e	l	l	o	.

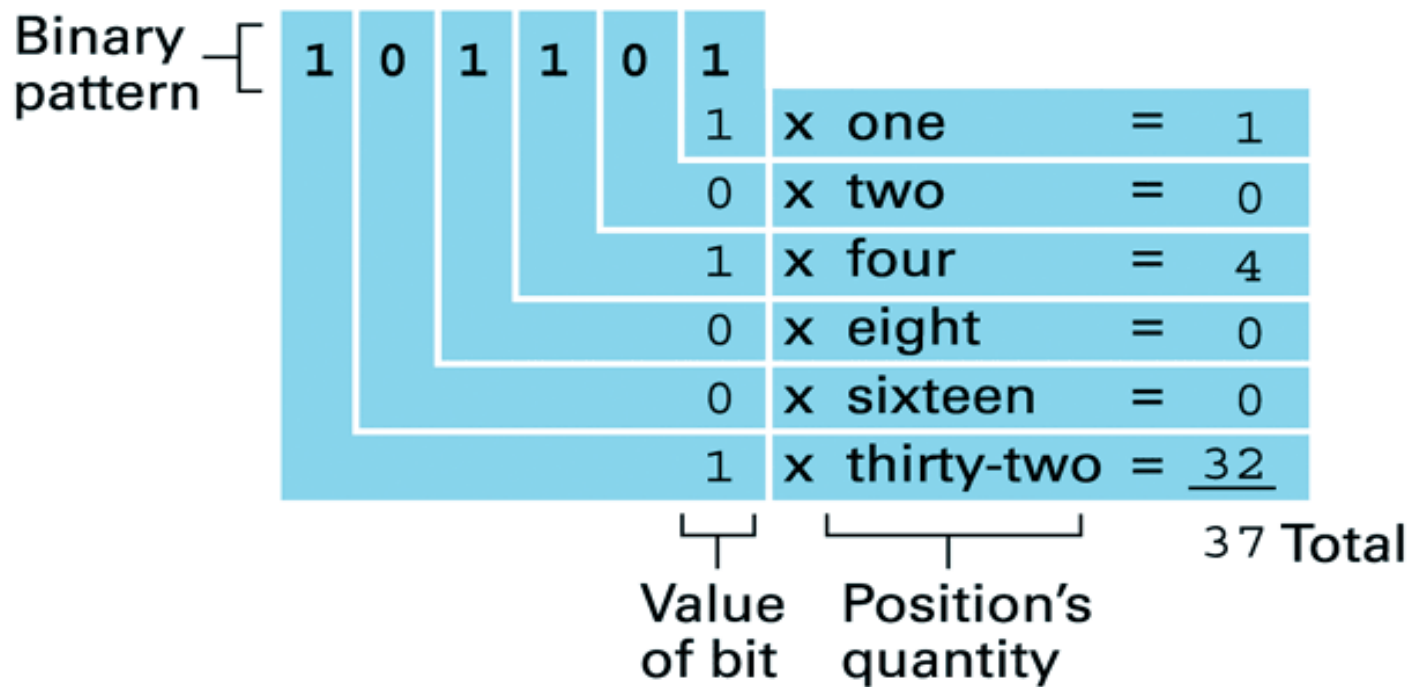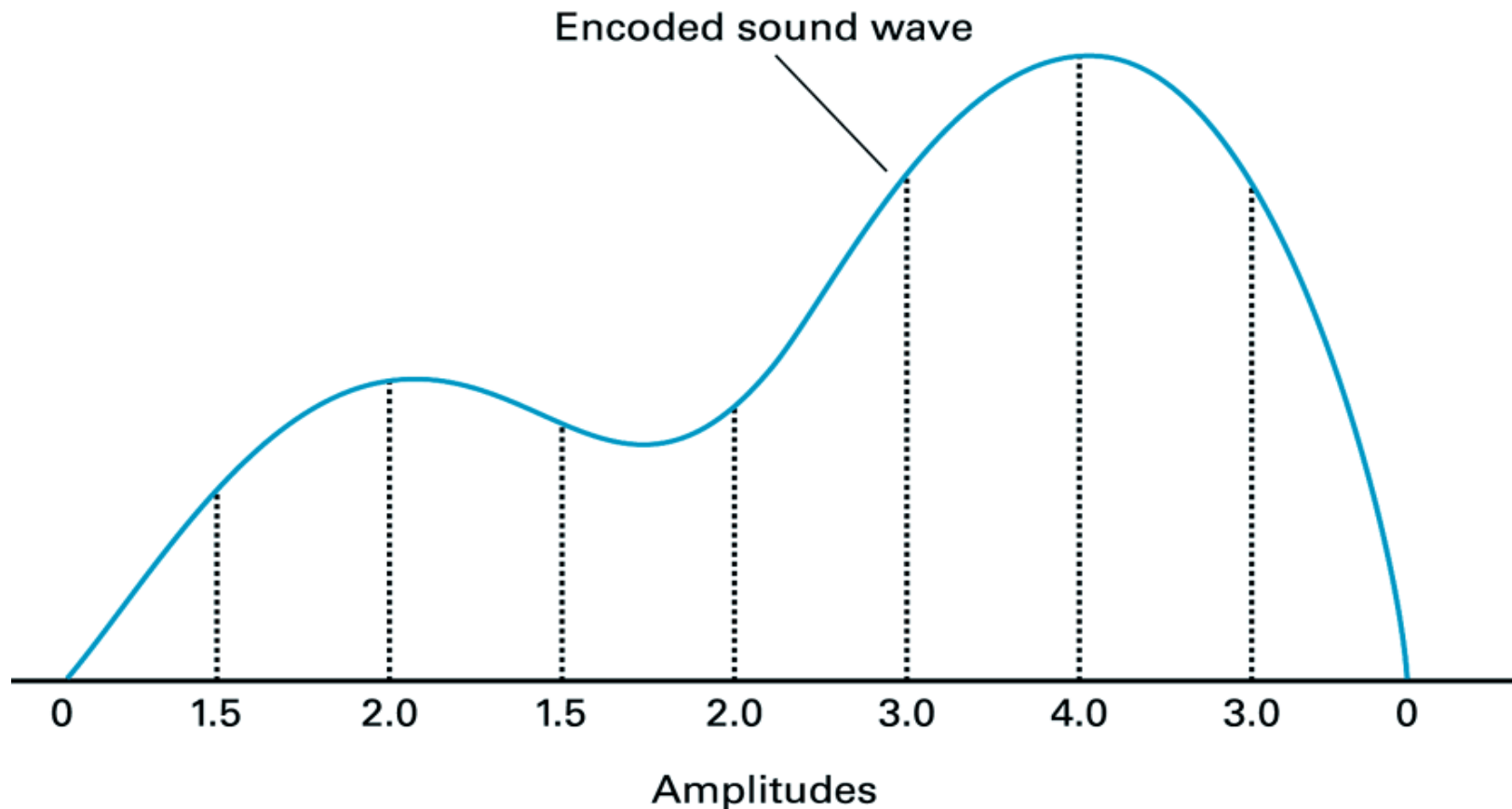# Figure 1.14: The base ten and binary systems
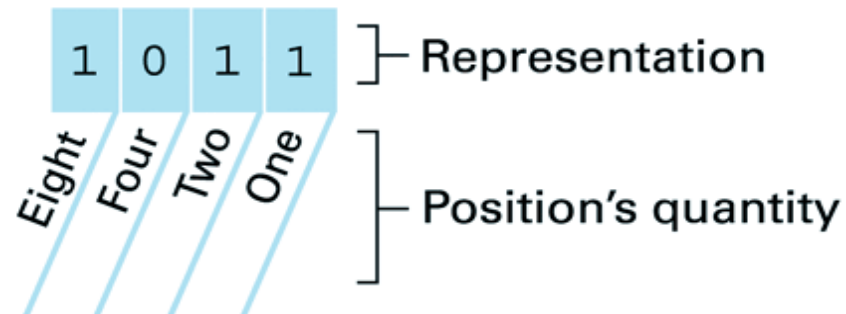
Figure 1.15: Decoding the binary representation 100101

represented by the sequence 0, 1.5, 2.0, 1.5, 2.0, 3.0,

Encoded sound wave

Amplitudes

Figure 1.20: Decoding the binary representation 101.101