

■ Pre-reading

1 Look at the text below and its source. Then circle the appropriate words to complete the sentences.

- a The text is an extract from **an online/a printed** encyclopedia.
- b It is about **the Internet/smartphones**.

Smartphone

Smartphone, mobile telephone with a display screen, built-in personal information management programs (such as an electronic calendar and address book) typically found in a personal digital assistant (PDA), and an operating system (OS) that allows other computer software to be installed for Web browsing, e-mail, music, video and other applications. A smartphone may be thought of as a handheld computer integrated within a mobile telephone.

The first smartphone was designed by IBM and sold by BellSouth in 1993. It included a touchscreen interface for accessing its calendar, address book, calculator and other functions. As the market matured and solid-state computer memory and integrated circuits became less expensive over the following decade, smartphones became more computer-like, and more more-advanced services, such as Internet access, became possible. Advanced services became present everywhere with the introduction of the so-called third-generation (3G) mobile phone networks in 2001. Before 3G, most mobile phones could send and receive data at a

rate sufficient for telephone calls and text messages. Using 3G, communication takes place at bit-rates high enough for sending and receiving photographs, video clips, music files, e-mails and more. Most smartphone manufacturers license an operating system, such as Microsoft Corporation's Windows Mobile OS, Symbian OS, Google's Android OS or Palm OS. Research in Motion's BlackBerry and Apple Inc.'s iPhone have their own proprietary systems.

Smartphones contain either a keyboard integrated with the telephone number pad or a standard "QWERTY" keyboard for text messaging, e-mailing and using Web browsers. "Virtual" keyboards can be integrated into a touch-screen design. Smartphones often have a built-in camera for recording and transmitting photographs and short videos. In addition, many smartphones can access Wi-Fi "hot spots" so that users can access VoIP (voice over Internet protocol) rather than pay cellular telephone transmission fees.

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2- Read the encyclopedia entry again and **answer** the questions. Give complete answers.

a- What is a smartphone?

b- Who designed the first smartphone?

c- What company sold the first smartphone?

d- What can a smartphone do with 3G technology?

e- What is "QWERTY"?

f- What is "VoIP"?
