

# Chapter 8 – college



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The operating system on your cell phone is one of the above

VoIP is phone service that works over an internet connection

Which service allows you to use your cell phone or smartphone to send messages that are MMS

Analog waves are still important because physical processes like sound waves are analog

The GPS positioning system is a system of 21 satellites in orbit useable by every smartphone - can track a phone's location in real time

Copyright is a policy for a set of licensing plans

An audio interface unit can connect a computer to musical instruments and microphones

P2P is an acronym for peer-to-peer sharing

An analog signal is different from a digital signal because it is continuous

The open format for publishing of e-books that is optimized for mobile devices is ePub

A cell phone is cellular because it uses a network made up of cells or base transceiver stations

Which of the following is false? Your phone can only be connected to the Internet if there is a Wifi network available

Which of the following is not a mobile device? base transceiver station

DRM is an acronym for Digital rights movement

Image resolution is the number of data points recorded in an image

A digital camera's resolution is measured in megapixels

Sampling rate is important when creating an analog signal from a digital source. False

A codec improves digital video resolution. False

Digital video can be stored in an . mpg file, an . mpeg file, or an . mp4 file.  
True

HDMI is a single cable that carries both high-definition video as well as audio signals. True

The two major types of system software programs are utility programs and the operating system

The \_\_\_ of the operating system enables users to communicate with the computer system user interface

OS X is the operating system developed by Apple

All of the following are examples of network operating systems EXCEPT MS-DOS

UNIX was developed by Ken Thompson and Dennis Ritchie, who worked at AT and Ts Bell Labs

The latest version of the Mac OS X is Mavericks

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Which of the following is NOT a user interface? Application programming interface (API)

Using hard disk space to temporarily store data or instructions from RAM is referred to as Virtual memory

Each device attached to your computer comes with a special program called \_\_\_ enables the device and operating system to communicate with each other device driver

Which of the following is the first step in the boot process? The BIOS is activated by turning on the computer

Which of the following Windows utility programs arranges pieces of files on your hard drive to allow for faster access? Disk defragmenter

Which of the following is NOT a windows utility program? Desktop

Which utility removes redundancies in a file to reduce the file size? File compression

You can use the Windows \_\_\_ to check on a nonresponsive program Task manager

Mac OS X includes a backup utility called Time machine

Folder Storage location for a collection of files

Tracks Concentric circle on the hard drive

Sector Pie-shaped wedge on the hard drive

Platters Round, thin plate of metal that makes up a hard drive

Taskbar Displays open and favorite applications

Latency Time needed for correct sector to spin to the read/write head

Seek time Time required for the read/write head to move to the correct track

There are \_\_\_ levels of cache memory Three

\_\_\_ provides high-speed information processing by enabling a new set of instructions to start before the previous set is finished Hyperthreading

The speed of a level of cache memory is impacted by the chip's proximity to the CPU

RAM is an example of \_\_\_ storage volatile

The amount of RAM storage is measured in GB

In most current systems, \_\_\_ is the type of RAM used DDR3

The \_\_\_ has the largest capacity of any storage device Mechanical hard drive

Which of the follow ports is NOT used to connect a video card? USB

To speed up the display of graphics, a \_\_\_ is installed on some video cards GPU

A \_\_\_ enables the computer to drive the speaker system Sound card

In Dolby Digital 7. 1, the 1 indicates a \_\_\_ speaker subwoofer

Running the disk defragmenter utility will \_\_\_\_\_. Make the hard drive work more efficiently

Running the disk cleanup utility is a quick way to clear out unnecessary files

To remove all the changes made to your system, the Windows \_\_ utility returns your computer to the state it was in when it came from the factory.

Refresh

Which statement pertaining to system reliability is FALSE? An accumulation of temporary internet files has no effect on your computer's overall performance

To securely erase data, the U. S Department of Defense suggests that the data be overwritten \_\_\_\_ times. seven

The CPU is composed of the control unit and the \_\_ unit arithmetic logic

The process the CPU performs for each program instruction is called the machine cycle

\_\_\_\_\_ is a feature of a CPU that allows it to begin to fetch the next instruction before it has finished executing the current one. Hyperthreading

fiber-optic made up of plastic or glass and transmits data at extremely fast speeds

twisted pair made up of copper wires

coaxial cable single copper wire surrounded by layers of plastic

peer-to-peereach node can communicate directly with every other node on the network

client/servercentral computer provides information and resources to other computers

MP3digital music file format

PMPportable media player

MPEG-4digital video file format

GPSuses satellites to locate a device

MMStechnology that allows the sending of text, sound, images, and video clips

resolutionnumber of data points used to capture and image

Bluetoothuses radio wave to transmit data

analogcontinuous sound or light waves

SMStext messaging

data plandetermines the cost and amount of data transfer for mobile devices

The Form 1 3D printer founders used the crowdfunding site \_\_\_\_\_ to ask for \$100, 000 in pledgesKickstarter

The term \_\_\_\_\_refers to the use of a single unifying device that handles media, Internet, entertainment, and telephone needs. digital convergence

What is iOS? An operating system for mobile devices

The operating system of a cell phone is stored in \_\_\_\_\_ROM

The primary input devices for smartphones are \_\_\_\_\_microphone and touch pad

Many mobile devices include a micro \_\_\_\_\_ portUSB

Text messaging is also called \_\_\_\_\_. short message service (SMS)

SMS messages are limited to a maximum of \_\_\_\_\_ characters160

You can send messages that include photos and videos between mobile devices using \_\_\_\_\_ technologymultimedia message service (MMS)

An Internet connectivity plan is also known as a \_\_\_\_\_ plan. data

All of the following are advantages of VoIP EXCEPT \_\_\_\_\_Excellent reliability during Internet or power outages

\_\_\_\_\_ is a very well-known free VoIP providerSkype

The global positioning system is a network of 21 \_\_\_\_\_ plus 3 working sparessatellites

A main difference between the tablet and the smartphone is the \_\_\_\_\_screen size

Which of the following mobile devices is the lightest? Smartphone

iOS and Android are \_\_\_\_\_ for tablets and smartphones. operating systems



The Apple iPhone uses a version of Apple's \_\_\_\_\_ as its operating system. OS X

When using a cell phone, a(n) \_\_\_\_\_ converter chip changes your voice's sound waves into digital signals. Analog-to-digital and analog to digital

Google \_\_\_ is an online store delivering software for mobile devices. play

Each cell in a cellular network is a geographic area centered on \_\_\_\_\_ station, which is a large communications tower. base transceiver

Which of the following is NOT an example of a smartphone OS? Linux

You are most likely to find a real-time operating system (RTOS) in your automobile.

Borrowing hard drive space to optimize RAM storage is known as virtual memory.

If your computer can't store all the required OS data in RAM, it can use a temporary file on the hard drive to store data. This is known as a \_\_\_\_\_ file. swap

To decide if your current system is still useful for you check each subsystem to see how it is performing during your work day.

Which of the following is true? The CPU contains the ALU.

RAID 0 cuts the time it takes to write a file to disk in half True

SuperFetch is a memory-management technique that pulls info from your hard drive into RAM True

When using 7.1 surround sound there are a total of 8 speakers

Windows creates "restore points" so that you can return your system to the way it was before you installed new software.

SSD startup drives will reduce the amount of time to boot up True

Donating your computer will not necessarily put you at risk for identity theft False

Which type of Internet connection requires hardware to be installed outside your home? Satellite

Network adapters installed internally in a device are called NICs True

Which of the following can be used to add additional ports to your network? Switch

To determine what devices are connected to your router, you should log into an account associated with your router's IP address.

Which of the following is NOT a reason to connect your digital entertainment device to your home network? Your stored entertainment files are more secure when connected to a home network.

Which of the following is NOT an operating system for a smartphone? HTC

A cell phone is cellular because it uses a network made up of cells or base transceiver stations

Which of the following is false? Your phone can only be connected to the Internet if there is a WiFi network available

An example of an open source OS is Linux

Each device attached to your computer needs a device driver to communicate with the OS True

The first step of the boot process is the power on self test False

Which of the following is NOT considered an accessibility utility? system restore

Apps specifically designed for windows 8 run full screen

The windows app used for file management is file explorer

If you place a document from your C: drive in the recycle bin in windows it remains on your hard drive until you empty the recycle bin

the chkdsk utility is used for detecting lost files and fragments of files on your hard drive error checking

You can terminate nonresponsive programs with Task Manager True

System restore points can only be created by Windows automatically on a regular schedule False

Moore's law refers to the number of transistors inside a CPU chip

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You would not want to consider overclocking if you want to keep the warranty on your system

The amount of time your current CPU is working is called CPU usage

The most common type of video memory is a modern video card is GDDR5

You can run multiple monitors on your system only if you have a video card that supports more than one monitor

An audio MIDI interface box lets you connect your computer to guitars and microphones

Which of the following would NOT be a benefit of networking computers?

Sharing software licenses

Megabit per second is usually used to measure both a and b

Which of the following is an example of a locally administered network? P2P network

What do you need to get wireless internet access at home? Wireless router

802.11ac is the current wireless Ethernet standard True

Which of the following might cause interference or poor connectivity between nodes on a wireless network? All of the above

What device would be useful to amplify a wireless signal? Wireless range extender

Home network servers are used for file management tasks on a home network  
true

All devices must run the same version of an operating system to connect to a home network  
false

VOIP is a service that lets you place phone calls using the internet as the network

Which of the following is NOT a mobile device? Base transceiver station

Every smartphone contains a GPS chip  
True

A WiFi network is always faster than a 4G network  
False

Analog signals are different than discrete signals because analog waves are continuous

Which is NOT true about self-publishing? Self-publishing means your work will have a limited reach to readers.

To play digital music files you can use  
All of the above

Streaming music services allow you to subscribe monthly and have access to millions of songs

A digital camera's resolution is measured in MP

Digital video can be stored in an .mpg, file, a .mpeg file or a .mp4 file  
True

The aspect ratio of an HD television is more square than that of a standard definition TV  
False

mobile computing devices portable electronic tools such as cell phones, PDAs, and notebooks allow us to communicate with others, remain productive, and access a wide array of information no matter where we are

cell phones feature traditional phone services such as call waiting and voice mail. Many now come with calendars, contact databases, text messaging, and e-mail capabilities

portable media players allow you to carry music files and other digital files

personal digital assistance a result of the convergence (or combination of features) of various portable devices, such as PMPs and cellular phones. These devices attempt to provide a single solution for your portable computing needs

smartphones another name for PDAs

subnotebooks run full-featured operating systems, weigh around 2 pounds, and are larger and more powerful than PDAs/smartphones

processor part of a cell phone that coordinates sending data between the components inside the phone. It also runs the cell phone's OS, which provides a user interface so that you can change phone settings, store information, and so on

microphone and keypad primary input devices for a cell phone

speaker and LCD display primary output devices of a cell phone

operating system necessary for translating the user's commands into instructions for the processor

OpenMoko free phone operating system in order to provide a consistent operating system and interface so users do not have to relearn tasks when upgrading phones

analog-to-digital converter chip converts your voice's sound waves into digital signals

digital signal processor included in a cell phone to handle the compression work

short message service technology that allows you to send short text messages (up to 160 characters) over mobile networks

multimedia message service allows you to send messages that include text, sound, images, and video clips to other phones or e-mail addresses

data plans common name for Internet connectivity plans, and often text messaging plans

microbrowser software optimized to display Web content effectively on a smaller screen

push technology technology that automatically delivers your e-mail to your phone

portable media players are small portable devices (such as an iPod) that enable the playing of MP3 files anywhere

MP3 is a format for efficiently storing music as digital files or a series of bits

flash memory a type of nonvolatile memory used by inexpensive PMPs to store files

sampling rate the number of times per second the music is measured and converted to a digital value

DRM-free music song files that can be moved freely from system to system

podcasting allows users to download audio content and then to listen to those broadcasts on their PMPs whenever they want

synchronization after plugging your iPod into a data port on your computer, the iPod searches iTunes for new content and automatically transfers it

personal digital assistant a small device that allows you to carry digital information

stylus pen-like device that allows users to directly enter data into a PDA

processor speed measured in hertz and is the number of operations (or cycles) the processor completes each second

benchmarking running the same task on competing PDAs and then compare the time it takes to complete the task

synchronizing process of updating your data so the files on your PDA/smartphone and computer are the same



Bluetooth uses radio waves to transmit data signals over short distances (up to about 30 feet)

IrDA port used by PDAs to transmit data signals using infrared light waves

Smartphones cost more than basic cell phones and then require a high-volume, monthly data plan to get full use from them

Notebook computer most powerful mobile computing solution

Power management profile contains recommended power-saving settings, such as turning off your hard drive after 15 minutes of no use, shutting down the monitor after 20 minutes of no movement, and switching the machine to standby or hibernation mode after a certain length of time

Windows Mobility Center feature of Windows Vista designed to help keep track of functions on mobile computers

Memory effect the battery must be completely used up before it is recharged

Footprint the amount of space on the desk a computer takes up

The operating system on your cell phone none of the above

VoIP is phone service that works over an internet connection

Which service allows you to use your cell phone or smartphone to send messages that MMS

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-usable by every smartphone

-can track a phone's location in real time

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Which of the following is not a mobile device? base transceiver station

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A codec improves digital video resolution. False

Digital video can be stored in an . mpg file, an . mpeg file, or an . mp4 file. True

HDMI is a single cable that carries both high-definition video as well as audio signals. True

digital convergence is the use of a single device to handle media, Internet, entertainment, and telephony needs. You see digital convergence in the evolution of smartphones. Digital convergence is also seen in the migration of digital devices into environments like the cabin of cars.

The Digital Living Network Alliance (DLNA; [dlna.org](http://dlna.org)) is an organization working to standardize different kinds of appliances and network devices used in our homes.

Telephony, the use of equipment to provide voice communications over a distance, has shifted from an analog science to a digital one.

phones—have the same components as any computer: a processor (central processing unit, or CPU), memory, and input and output devices. Cell phones require their own operating system (OS) software and have their own application software

OS read only memory ROM

phone input devices microphone, touch pad, iphone

phone out put devices LCD, speakers

digital processing Sound enters as a sound wave. An analog-to-digital converter chip converts the waves into digital signals.

The digital data is compressed so it will transmit more quickly. A specialized chip called the digital signal processor included in the cell phone handles the compression work.

The digital data is transmitted as a radio wave to the destination phone.

When you receive a call, the digital signal processor decompresses the message. An amplifier boosts the signal and it is passed on to the speaker.

Bluetooth chip transfer data wirelessly to any other Bluetooth-enabled device. It uses radio waves to transmit data signals.

3G 3G brought mobile device data-transfer rates as high as 3.8 Mbps. 3G is more reliable than WiFi and is less susceptible to interference. 3G blankets most major urban areas with connectivity.

4G 4G can provide mobile connection speeds of up to 100 Mbps. Most providers can't deliver true 4G speeds; their 4G networks deliver speeds of 6 Mbps to 11 Mbps. These "4G LTE" connections are faster than 3G but don't meet the rate required to be true 4G. The expansion of 4G will usher in a new generation of mobile devices.

tethering which makes sure that as long as you have a 3G/4G signal, your computer can access the Internet even when it tells you there are no available wireless networks

Voice over Internet Protocol (VoIP) a form of voice-based Internet communication that turns a standard Internet connection into a means to place phone calls, including long-distance calls. Traditional telephone communications use analog voice data and telephone connections. In contrast, VoIP uses technology similar to that used in e-mail to send your voice data digitally over the Internet.

data plan. Internet connectivity plan or text messaging plan

digital publishing One big allure of digital publishing is distribution. Ease of access to digital books is very attractive. e-readers offer many advantages over paper books:

Integrated dictionaries pull up a definition just by highlighting a word.

Electronic text (e-text) is textual information captured digitally so that it can be stored, manipulated, and transmitted by electronic devices

sampling rate specifies the number of times the analog wave is measured each second. The higher the sampling rate, the more accurately the original wave can be recreated.

Digital music file formats include MP3, AAC and WMA

DRM-free music which is music without any digital rights management (DRM).

DRM is a system of access control that allows only limited use of material

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that's been legally purchased. It might be that the song can only run on certain devices or a movie can only be viewed a certain number of times.

RAWfiles have different formats and extensions depending on the manufacturer of a particular camera. This file records all of the original image information, so it's larger than a compressed file.

JPEGfiles can be compressed just a bit, keeping most of the details, or compressed a great deal, losing some detail. Most cameras allow you to select from a few different compression levels.

aren't available in smartphone camerasuch as different types of autofocus, image stabilization algorithms, and smile shutter, which waits to take the shot until your subject is smiling.

HD video recordingDVR

PVR

Slingbox

Digital audio is music, speech, and other sounds represented in a binary format for use in digital devices. true

Sampling rate refers to the total number of times that sound is measured during the recording process. false

Popular digital audio formats include AAC, MP3, and WAV. true

Solid state storage cards hold data without consuming power, so they do not lose data when the camera, for example, is turned off. true

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Whether you acquire an image from a digital camera or scanner, bitmap graphics tend to require very little storage space. false

Text contained in a vector graphic image is stored as actual text, not just as a series of colored dots. true

With videos shown on a small computer screen at a fairly low resolution, recording with an inexpensive camera will not make a difference on the quality of the final video. false

Speech recognition refers to the ability of machines to understand the spoken word. true

The color of each dot in a bitmap graphic is stored as a binary number. true

Using a computer's infrared port to beam photo data from a camera, which eliminates the need for a cable, is much faster than using FireWall or USB. false

Enlarging a bitmap requires your computer to fill in missing pixels, which sometimes results in a palpitating or " bitmappy," jagged image. false

A system palette is the collection of colors used by the operating system for the graphics that represent desktop icons and controls. true

A vector graphic can easily be converted into a bitmap graphic through a process known as digitization. false

The digital hole allows pirates to capture content by using a microphone to record songs as they are output to speakers or using a camcorder to film movies as they are projected in a movie theater. false

Apple's FairPlay and Microsoft's Windows Media DRM are designed to protect music, movies, ebooks, and even television shows. true

Authentication is a very simple form of digital rights management that allows content to be access only by authorized individuals. true

The audio CDs you buy at your favorite music store are recorded at a sampling rate of \_\_\_\_ . 44. 1 kHz

A(n) \_\_\_\_ is a device that contains a variety of input and output jacks, plus audio-processing circuitry. sound card

You can connect most standard microphones to your computer through the microphone socket or \_\_\_\_ port. USB

The \_\_\_\_ format offers very good sound quality based on MPEG-4. AAC

\_\_\_\_ is supported by browsers without a plug-in. WAV

\_\_\_\_ is supported by browsers without a plug-in. 10 MB

A MIDI sequence contains all of the following EXCEPT \_\_\_\_ . a wavetable

A \_\_\_\_ graphic is composed of a grid of dots. bitmap

One way to transfer photo data from a camera directly to a computer is via \_\_\_\_ . FireWall ports



If your computer and your camera have \_\_\_ ports, you can connect a cable between these two ports to transfer the photo data. USB

The size of the file that holds a bitmap depends on its resolution and \_\_\_\_\_.  
color depth

A resolution of 1600 x 1200 could also be expressed as \_\_\_ megapixels. 1. 9

When a bitmap graphic is enlarged, it still retains its original \_\_\_\_\_. resolution

Most experts recommend that Web graphics not exceed \_\_\_ KB. 100

\_\_\_ refers to the process of selecting part of an image. cropping

The quality of a bitmap graphic is \_\_\_ dependent. resolution

You have just decreased the number of pixels and file size of your graphic by selecting a portion of the image. You have \_\_\_\_\_. cropped your graphic

A \_\_\_ bit in a monochrome bitmap represents black.

A True Color or 24-bit bitmap can produce a maximum of \_\_\_ colors. 16. 7  
million

A \_\_\_ palette contains a standard set of colors used by most Internet Web browsers. Web

Which of the following formats does not offer lossless compression? JPEG

\_\_\_ preprocesses an image by tweaking the colors in adjoining pixels so that they are the same color whenever possible. JPEG

\_\_\_ file sizes might shrink by as much as 70% when compressed. BMP

You plan to create a cartoon-like image of a computer to be used in a flyer for your school's computer lab. You should create a \_\_\_ graphic. vector

A \_\_\_ graphic consists of a set of instructions for re-creating a picture. vector

Which of the following is a file extension you might find on a vector graphic filename?. wmf

One clue that an image might be a \_\_\_ graphic is a flat, cartoon-like quality. vector

Vector graphics software is sometimes referred to as \_\_\_ software. drawing

A \_\_\_ is a smooth blending of shades from one color to another or from light to dark. gradient

A vector graphic can quite easily be converted into a bitmap graphic through a process called \_\_\_\_. rasterizing

\_\_\_ software locates the edges of objects in a bitmap image and converts the resulting shapes into vector graphic objects. tracing

\_\_\_ can be used to create the illusion of three dimensions by smoothly blending shades from one color to another or from light to dark. gradients

\_\_\_ is supported by most modern browsers without requiring a plug-in; it supports gradients, drop shadows, multiple levels of transparency, and

animation effects, along with portability to other platforms, such as handheld computers and cellular phones. SVG

The process of covering a wireframe with surface color and texture is called \_\_\_\_\_. rendering

A video is composed of a series of bitmap graphics, each one called a \_\_\_\_\_. frame

Footage can originate from a \_\_\_\_\_. all of the above

The process of converting analog video signals into a digital format is referred to as \_\_\_\_\_. video capture

All of the following are examples of video editing software EXCEPT \_\_\_\_\_.  
Adobe Illustrator

Today's \_\_\_\_ editing simply requires a computer hard disk and video editing software. nonlinear

Each \_\_\_\_ uses a unique compression algorithm that allows the user to specify the compression ratio and/or bitrate used when compressing video. codec

Digital video file formats are sometimes referred to as \_\_\_\_ formats. container

\_\_\_\_\_ is a popular format for Web-based video that requires Adobe Flash Player. Flash video

\_\_\_ shifting is the process of recording a broadcast so that it can be played back at a more convenient time. time

\_\_\_ shifting is the process of converting media files from a format suitable for one device to a format suitable for a different kind of device. format

\_\_\_ shifting is often achieved using computer networks, as when you stream a movie from your computer to your Wi-Fi equipped DVD player to your Wi-Fi equipped HDTV. place

A common use of \_\_\_ shifting is ripping audio tracks from a CD and converting them into MP3 format for playback on a portable media device. format

All of the following are DRM technologies EXCEPT \_\_\_\_. dithering

\_\_\_ is a collection of techniques that copyright holders use to limit access to and use of digital content. DRM

A \_\_\_ watermark is a pattern of bits inserted at various places in an image or a content stream that can be used to track, identify, verify, and control content use. digital

\_\_\_ depends on authorization and revocation built into devices and content. AAC3

CSS stands for Content \_\_\_ Systems scramble

\_\_\_ is a hardware-based DRM technology that requires compliant devices for content playback. HDCP

Now when you purchase a digital book from \_\_\_\_\_, you can read it on devices that include computers, tablets, and smartphones. all of the above

Under U. S. law, copyright holders may be awarded statutory damages up to \_\_\_\_\_ for copyright infringement.\$250, 000

When should she use a digital camera rather than a scanner? when she wants to create an image of a real object

Alison has only taken 10 pictures with her digital camera, and she finds she has filled her memory card. Why might this have occurred? her images were taken at a very high resolution.

Anita has created files with the following names: roof, column, and sun.

Which of the following file extensions would most likely be found on her files?  
wmf

Anita would like to make her columns appear to be three-dimensional. She should see if her graphics software allows her to use \_\_\_\_\_. gradients

Nancy is using codec software to reduce the size of some of her video files by allowing her to specify a compression ratio or bitrate. If she is very concerned with minimizing the size of her video files, she could \_\_\_\_\_. use a high compression ratio

\_\_\_\_\_ rate refers to the number of times per second that a sound is measured during the recording process. SAMPLING

\_\_\_\_\_ sound is an artificially created sound, of which MIDI music is an example. SYNTHESIZED

A MIDI-capable sound card contains a(n) \_\_\_\_\_, which is a set of pre-recorded musical instrument sounds. WAVETABLE

A bitmap graphic is divided into a grid of individually colored \_\_\_\_\_ . PIXELS

\_\_\_\_\_ is a graphics format designed to improve on the GIF format. PNG

The more pixels in a bitmap, the more \_\_\_\_\_ needed to store the file. BITS

In a monochrome bitmap, an " on" pixel is represented by a(n) \_\_\_\_\_ bit. 1

\_\_\_\_\_ works by superimposing a grid over a vector image and determining the color for each pixel. RASTERIZING

In a 3-D graphic, the process of covering a wireframe with surface color and texture is called \_\_\_\_\_. RENDERING

Digital videos can be converted from one file format to another through a process called \_\_\_\_\_. TRANSCODING

A scanner, like the one featured in the accompanying figure, creates a vector graphic. false

You can use a scanner, like the one in the accompanying figure, to convert a printed image into a bitmap graphic. true

When you increase the resolution of an existing graphic, as illustrated in the accompanying figure, the file size decreases. false

Each pixel in a monochrome bitmap grid, as illustrated in the accompanying figure, is stored as a bit. true

Monochrome bitmaps, like the one shown in the accompanying figure, require a lot of storage space. false

A vector graphic, like the one shown in the accompanying figure, resizes better than a comparable bitmap graphic. true

With vector graphics, like the one found in the accompanying figure, objects may be layered over other objects. true

Individual objects in a vector graphic, like the one in the accompanying figure, cannot be easily stretched, shrunk, colored, moved, and deleted. false

Because of its complexity, the DRM technology shown in the accompanying figure has never been broken. false

In the accompanying figure, the bitmap image on the left was enlarged to create the image on the right by a process called pixel recalibration. false

With images that contain strong curved or diagonal lines, pixel \_\_\_ can result in the kind of effects shown in the accompanying figure. interpolation

The term \_\_\_ refers to the use of a single unifying device that handles media, internet, entertainment, and telephone needs. Digital Convergence

The operating system of a cell phone is stored in \_\_\_. Rom

A(n) \_\_\_ chip converts sound waves from a voice into digital signal. Analog-to-digital converter

A(n) \_\_\_ converts your voice's sound waves into digital signals. Analog-to-digital converter chip

Which is true of SMS messages? They can contain a limited number of characters.

You can send messages that include photos and videos between mobile devices using \_\_\_ technology. Multimedia message service (MMS)

VoIP uses \_\_\_ technology similar to email to transmit voice over the internet. Digital

\_\_\_ allows only limited use of media that have been legally purchased. Digital rights management

Which of the following describes the number of times an analog wave is measured each second during an analog-to-digital conversion? Sampling rate

DRM-free music can legally be moved from system to system. True

Granting of certain rights to a work while retaining other rights copyright

number of times an analog wave is measured sampling rate

connecting a computer to the internet through a smartphone's cellular access tethering

digitized text displayed by electronic devices e-text



allows only limited use of legally purchased materialsdigital rights management

A cell phone is cellular becauseit uses a network made up of cells or base transceiver stations.

Your phone can only be connected to the internet if there is a WIFI network availableFalse

Streaming music services allow you tosubscribe monthly and have access to millions of songs

Cellular networks offer faster data-transfer speed than WIFI offersFalse

Every new cell/smartphone has to include a GPS chip. True