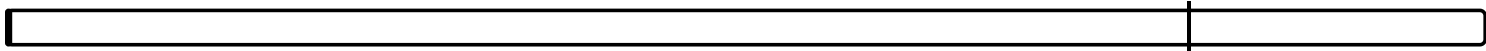


# 3.2.10 Practice Questions

Candidate: Seolito Rodríguez (rodriguez77)  
Date: 1/23/2024, 9:55:39 PM • Time Spent: 20:40

Score: 0%

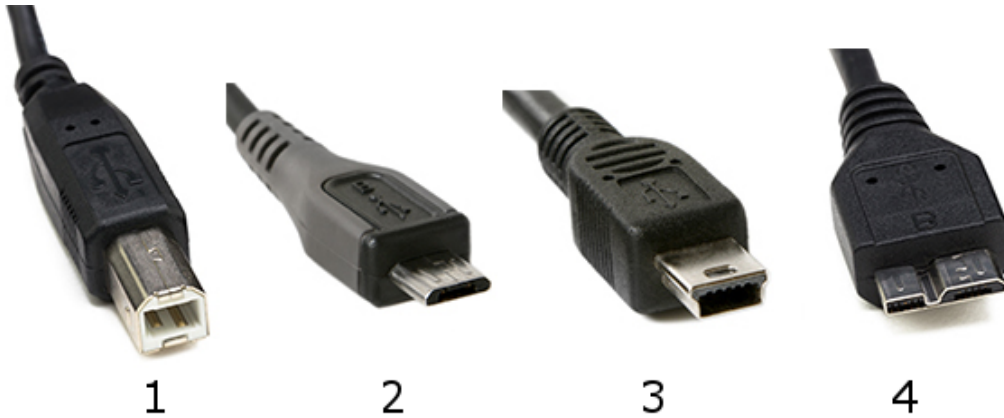
Passing Score: 80%



## Question 1.

✗ Incorrect

Match each USB connector type on the left with the image label on the right. (Not all USB connector types will be used.)



1

USB 2.0 Type-B

2

microUSB

3

miniUSB

4

USB 3.0 Micro-B

[Keyboard Instructions](#)**Explanation**

Connector 1 is a USB 2.0 Type-B connector, which is a square connector with two beveled corners. Type-B connectors are mostly used with printers. Some networking devices, such as hubs and modems, also use this connector.

Connector 2 is a USB 2.0 microUSB connector designed for smartphones and tablet devices. microUSB connectors are approximately half the thickness of miniUSB connectors, making microUSB more appropriate for smaller devices.

Connector 3 is a USB 2.0 miniUSB connector, which is used by portable electronic devices, such as digital cameras and some portable storage devices.

Connector 4 is a USB 3.0 Micro-B connector, which is used by small portable electronic devices, such as portable storage devices.

**References**[3.2.3 USB Facts](#)



## 3.2.5 Peripheral and Video Cables

q\_usb\_connect\_type\_match\_pp7.question.fex

## Question 2.

× Incorrect

You have just purchased a smartphone with a USB Type-C cable connector for charging your phone.

Which of the following is a USB Type-C connector? (Select one.)



1



2



3



4

## Explanation

Number 4 is a USB Type-C connector that you use for charging a smartphone.

Number 1 is a USB 3.0 Type-A connector and is often used on wired mice and keyboards or for a USB memory stick.

Number 2 is a USB 3.0 Type-B connector commonly used with a printer, scanner, or other large device.

Number 3 is a USB 2.0 Micro-B connector widely used on smartphones and tablets.

## References



3.2.2 Universal Serial Bus



3.2.3 USB Facts



3.2.5 Peripheral and Video Cables

q\_usb\_identify\_usb\_type\_c\_pp7.question.fex

**Question 3.****✗ Incorrect**

Which type of USB 3.0 connector is shown here?



- ☐ MiniUSB
- ☐ Type-B
- ☐ Type-A
- ☐ MicroUSB

**Explanation**

The microUSB 3.0 connector is designed for smartphones and tablet devices. microUSB connectors are approximately half the thickness of miniUSB connectors, making microUSB more appropriate for smaller devices.

The miniUSB connector is used by portable electronic devices, such as digital cameras and some portable storage devices.

The Type-B is a square connector with two beveled corners. Type-B connectors are mostly used with printers. Some networking devices, such as hubs and modems, also use this connector.

The Type-A connector is a rectangular connector that generally plugs directly into the computer or a hub. Almost all USB cables have one Type-A connector on one of the ends.

**References**

3.2.3 USB Facts



3.2.5 Peripheral and Video Cables

q\_usb\_micro\_usb\_30\_pp7.question.fex

## Question 4.

× Incorrect

Susan works in the research and development department. She recently purchased a large high-speed external drive and has attached the drive to her computer using a USB cable. Her drive requires a minimum data transfer speed of 5 Gbps and needs to have access to 600 mA/15 volts of USB power to function properly.

Although the correct drivers are installed, when she plugs her drive into her workstation, the drive is not working. To troubleshoot the problem, she has connected her drive to her coworker's computer, where the drive functions properly. No additional cables are required for this drive.

Which of the following is the MOST likely reason that Susan's external hard drive is not working?

- ☐ Susan has connected her drive to a USB 2.0 port, which does not have the required data transfer speed.
- ☐ Susan has connected her drive to a USB 3.2 port, which does not support the minimum data transfer speed required.
- ☐ Susan has connected her drive to a USB 3.2 port, but the drive is only made to work with a 2.0 port.
- ☐ Susan has connected her drive using a Type-C cable, which does not have enough power for her drive.





**Explanation**

Susan has connected her drive to a USB 2.0 port on her computer, which only supports up to 480 Mbps data transfer speeds. However, her external hard drive requires a minimum of 5 Gbps, which is provided by a 3.2 USB port.

Because the external hard drive requires 5 Gbps and 600 mA of USB power, the drive is most likely designed to be used with a 3.2 USB port.

A USB Type-C cable provides up to 20 volts of power, which meets the external hard drive requirements.

**References**

-  3.2.1 External Connectors
-  3.2.2 Universal Serial Bus
-  3.2.3 USB Facts
-  3.2.6 Peripheral and Video Cables Facts

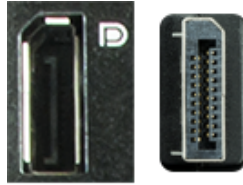
q\_usb\_trbl\_shoot\_usb\_2\_port\_pp7.question.fex

## Question 5.

× Incorrect

You have purchased a new LED monitor for your computer. On the back of the monitor, you see the following port (pictured below).

Which type of cable should you use to connect the monitor to your computer?



- ☐ HDMI cable
- ☐ DisplayPort cable
- ☐ VGA cable
- ☐ DVI cable

**Explanation**






The pictured port is a DisplayPort, which uses a DisplayPort cable. HD displays, such as LED and LCD monitors, use DisplayPorts. DisplayPorts can be identified by their rectangular shape with one beveled corner.

HDMI ports have two beveled corners and are a bit smaller than DisplayPorts.

VGA ports have three rows of 5-pin holes.

DVI ports are larger than other video ports and have up to 24 pin holes.

**References**

-  3.2.1 External Connectors
-  3.2.5 Peripheral and Video Cables
-  3.2.6 Peripheral and Video Cables Facts
-  3.11.5 Video Cards
-  3.11.6 Video and Capture Card Facts

q\_video\_cables\_displayport\_cable\_monitor\_pp7.question.fex

**Question 6.****× Incorrect**

The CEO of your small company has asked you to connect a laptop computer to the small conference room LED TV. The CEO will be showing a promotional video that demonstrates the new company strategy through images and sound.

Which of the following cable types would work BEST for connecting the laptop to the display?

- ☐ DVI
- ☐ Composite
- ☐ VGA
- ☐ HDMI






**Explanation**

HDMI is the default cable standard for newer electronic devices, such as Blu-ray players and LED TVs. HDMI can carry both digital video and audio signals. Most modern computers include an HDMI port.

DVI and VGA only support video signals.

Composite cables support video, but not audio.

**References**

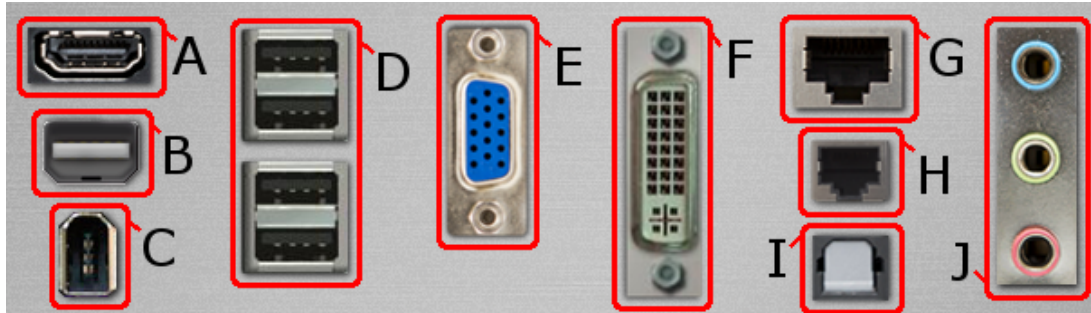
-  3.2.1 External Connectors
  -  3.2.5 Peripheral and Video Cables
  -  3.2.6 Peripheral and Video Cables Facts
  -  3.11.5 Video Cards
  -  3.11.6 Video and Capture Card Facts
- q\_video\_cables\_hdmi\_led\_tv\_pp7.question.fex

## Question 7.

✕ Incorrect

Consider the external ports for a typical PC system (pictured below).

Drag each port type on the left to the letter on the right that best identifies the port. (Each type can be used only once.)



A	<input type="text"/>	HDMI	B	<input type="text"/>	Thunderbolt	C	<input type="text"/>	IEEE 1394
D	<input type="text"/>	USB	E	<input type="text"/>	VGA	F	<input type="text"/>	DVI
G	<input type="text"/>	RJ45	H	<input type="text"/>	RJ11	I	<input type="text"/>	Fiber S/PDIF
J	<input type="text"/>	Audio jack						

[Keyboard Instructions](#)

## Explanation

In this example, the computer back panel has the following ports:

- A: HDMI - connects HDMI display devices.
- B: Thunderbolt - combines PCI Express (PCIe) and DisplayPort signals into a single interface.
- C: IEEE 1394 - connects devices that require fast communication speeds.
- D: USB - connects external USB devices (such as a keyboard, mouse, printer, or storage device).
- E: VGA - connects VGA display devices.
- F: DVI - connects DVI display devices.
- G: RJ45 - connects the computer to an Ethernet network.
- H: RJ11 - used by telephones and modems to send analog signals.
- I: Fiber S/PDIF - sends a digital audio signal to high-end audio devices, such as home theater systems.
- J: Audio jack - connects analog audio devices (such as speakers, headphones, and microphones).

#### References



3.1.1 Network Cables



3.1.2 Coaxial Cable Facts



3.1.3 Twisted Pair Cable Facts



3.1.4 Twisted Pair Connector Facts



3.2.6 Peripheral and Video Cables Facts

q\_video\_cables\_port\_type\_match\_pp7.question.fex

**Question 8.****✖ Incorrect**

You are installing a new SATA hard drive in your Windows workstation.

Which of the following connectors should you use to connect your hard drive to the motherboard?

- ☐ 80-pin connector
- ☐ 40-pin connector
- ☐ 50-pin connector
- ☐ 7-pin connector




**Explanation**

You use a 7-pin connector to connect a SATA hard drive to the motherboard.

IDE hard drives use a 40-pin connector.

SCSI and SPI-SCSI parallel interfaces use 50-, 68-, or 80-pin connectors.

**References**

-  3.2.7 Hard Drive Cables
-  3.2.8 Hard Drive Cable Facts
-  5.2.1 SATA

q\_hd\_cables\_7\_pin\_connector\_pp7.question.fex

## Question 9.

✗ Incorrect

The image below illustrates the four common external cable types for hard drives. Each type is identified by a number.

Drag each cable type number on the left to the appropriate cable type title on the right.



SCSI

2

eSATA

1

iSCSI

4

SAS

3

[Keyboard Instructions](#)**Explanation**

The appropriate matches are:

- 1 - eSATA
- 2 - SCSI
- 3 - SAS
- 4 - iSCSI

**References**

3.2.7 Hard Drive Cables



### 3.2.8 Hard Drive Cable Facts

q\_hd\_cables\_external\_hd\_connector\_match\_pp7.question.fex

## Question 10.

✗ Incorrect

Drag each internal hard drive connector type on the left to the appropriate description on the right.

A common type of connector used to power internal computer components.



Molex

Usually found only in high-end servers, mainframe computers, and RAID storage devices.



SCSI

Frequently used in modern computers to connect hard drives to the motherboard.



SATA

An older technology where the cable connects to the motherboard and two devices.



IDE

A point-to-point interface typically found in enterprise-level storage systems, like RAID and tape drives.



SAS

## Keyboard Instructions

## Explanation

The appropriate matches are:

- SATA - frequently used in modern computers to connect hard drives to the motherboard.
- SCSI - usually found only in high-end servers, mainframe computers, and RAID storage devices.
- IDE - an older technology where the cable connects to the motherboard and two devices.
- Molex - a common type of connector used to power internal computer components.
- SAS - a point-to-point interface typically found in enterprise-level storage systems, like RAID and tape drives.

## References



3.2.7 Hard Drive Cables



3.2.8 Hard Drive Cable Facts



5.2.1 SATA

q\_hd\_cables\_internal\_hd\_connector\_match\_pp7.question.fex

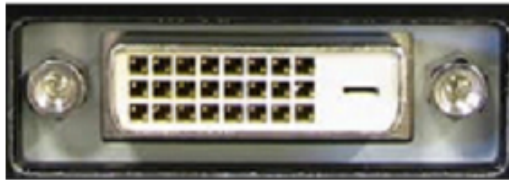
## Question 11.

✗ Incorrect

The manager of the research and development team needs to make a PowerPoint presentation for her team members (with no audio). Her presentation requires her computer to be connected to a large high-definition television. You have been asked to ensure that the computer is connected and functioning properly prior to her presentation.

In the process of setting up the computer, you find that the computer's video port (see image 1) is different from the port found on the TV (see image 2).

Which of the following adapters **MUST** you use to connect the computer to the TV?

**1****2**

- ☐ RCA-to-HDMI
- ☐ VGA-to-HDMI
- ☐ DVI-to-HDMI
- ☐ RCA-to-USB
- ☐ VGA-to-USB
- ☐ DVI-to-USB

**Explanation**

The computer has a DVI connector, while the TV has an HDMI connector. You need to use a DVI-to-HDMI adapter. DVI is a digital signal in the same format as the video portion of HDMI. However, DVI doesn't carry the audio signal like HDMI does. This means that if you are only using the video signal (such as showing a PowerPoint slide show), you can use a simple DVI-to-HDMI plug adapter that changes the physical connections.

**References**

3.2.9 Adapter and Converter Facts  
q\_port\_adapt\_dvi-to-hdmi.question.fex