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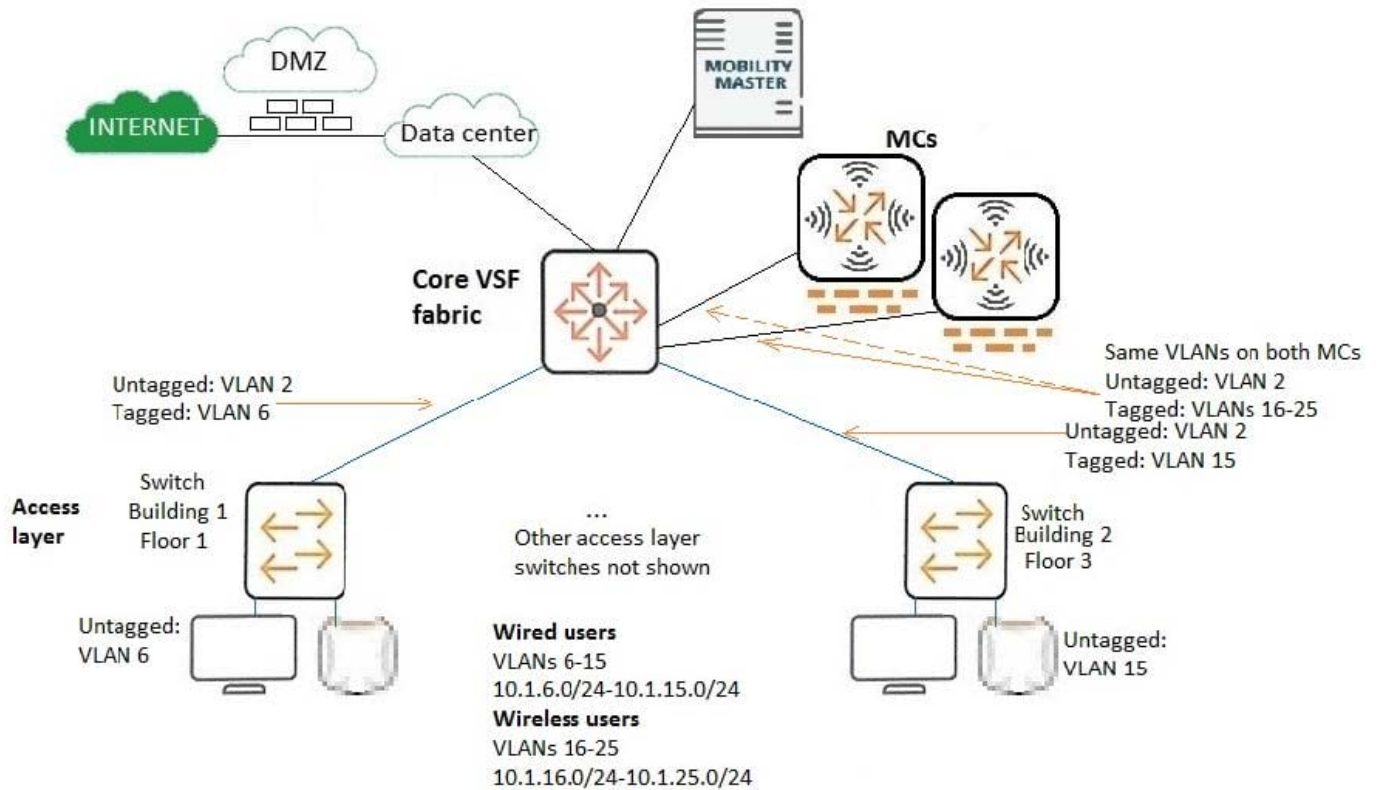
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QUESTION 1

Refer to the exhibit.

A customer needs a wireless network upgrade and has these requirements: Support any applications used on a wired connection Support up to 2500 wireless clients Support seamless roaming from floor to floor and building to building Continue to function seamlessly if one AP or controller fails

The architect has designed the local infrastructure for the network as shown in the exhibit.

Which change should the architect make to better meet customer requirements and best practices?

A. Combine the /24 subnets for wireless and wired users into a /16 subnet.

B. Place each controller in a different VLAN and subnet.

C. Change the /24 subnets for wireless users into a /25 subnet.

D. Combine the /24 subnets for wireless users into a /20 subnet.

Correct Answer: B

QUESTION 2

Case study

A customer needs a wireless network upgrade for 802.11ac and possibly an upgrade to the wired network.

The customer requires dual-radio 802.11ac APs, each radio of which can support 4x4 MIMO at full feature set.

The customer has given architects this information about their wireless devices:

2700 IoT devices which will have only wireless connections; they support WPA2 with 802.1X

300 on each floor in 3 buildings with 3 floors each

5,400 users, who use devices such as laptops and smartphones

600 users on each floor in 3 buildings with 3 floors each

24 security cameras which will have only wireless connections; they support WPA2 with 802.1X and have

a local power source

4 on floor 1 of each of the 3 buildings

2 on the other 6 floors

The architect also has collected information about the existing wired network.

The existing access layer switches support these features:

10/100/1000 edge ports
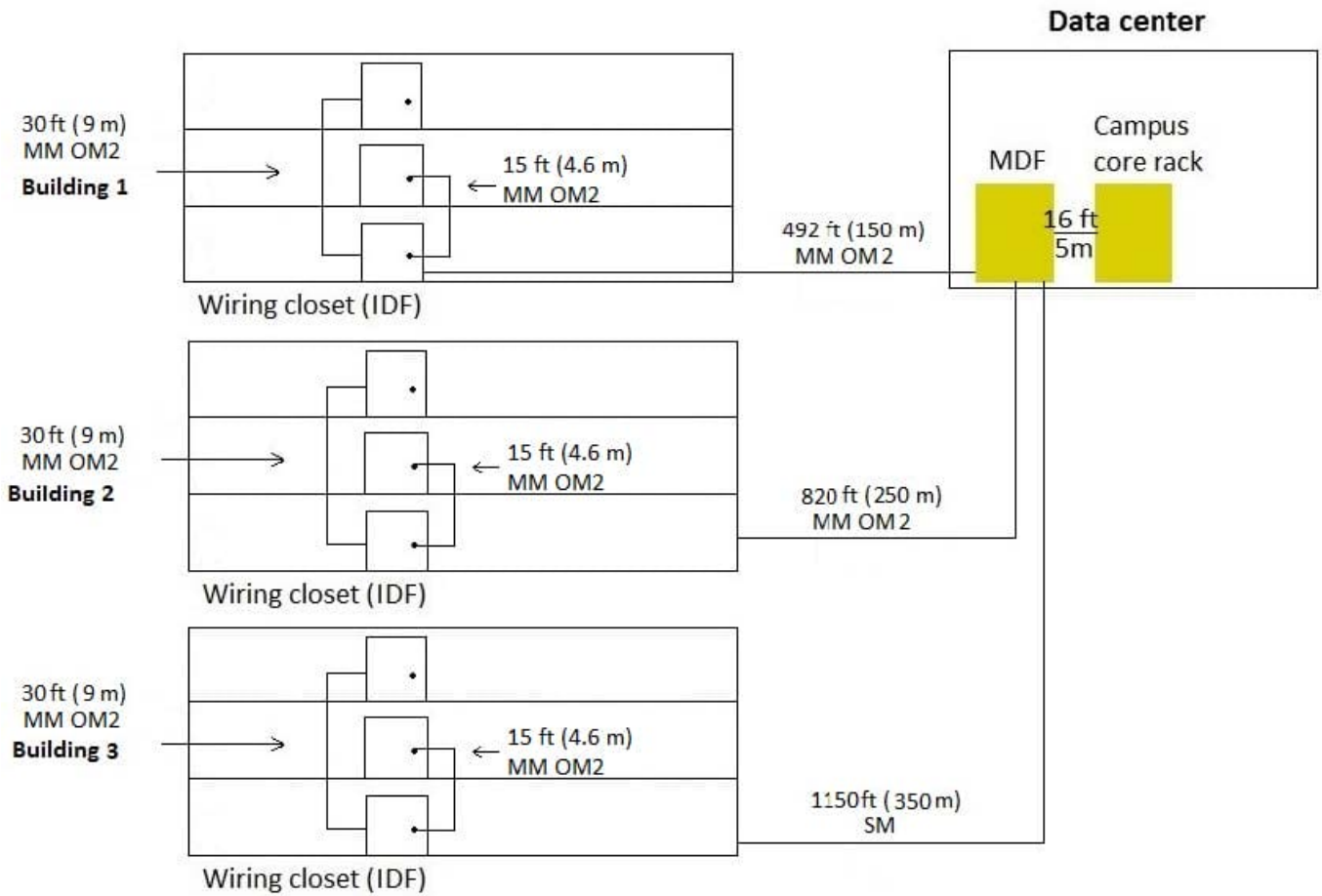
PoE (802.3af)

1GbE fiber uplinks

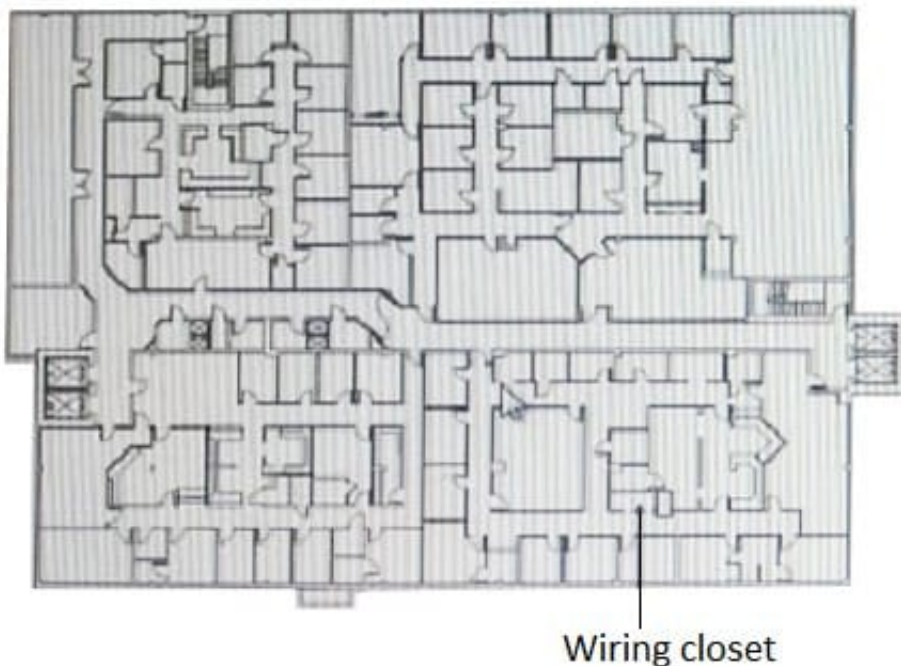The existing aggregation switches support these features:

1/10GbE fiber ports

ARP tables up to 62,000

The customer has provided this figure that shows the existing cabling between floors and between

buildings:

Each floor is about 100 feet (30 m) by 140 feet (43 m) with a 10 foot (3 m) ceiling. Interior walls are drywall. The layout for each floor is similar to that shown below. CAT5e cable is extended to all areas.

Wiring closet

What is one piece of additional information architects should obtain from the customer before they design the wireless

solution?

A. whether the users sometimes connect their laptops with Ethernet

B. whether the IoT devices support MAC-Auth

C. the number of concurrently used wireless devices per user

D. the power requirements for the security cameras

Correct Answer: C

QUESTION 3

An indoor sports stadium has 5,000 seats in two rings:

The stadium has a ceiling height of 72 feet (22 m).

There is a catwalk around the perimeter of the stadium that is 54 feet (13 m) from the floor.

There are two scoreboards at either and of the stadium.

The construction of the stadium is concrete and steel.

The customer has indicated a preference for overhead coverage, and the wireless network should support

3500 concurrent clients. The architect plans to install the APs on the catwalk to service sections of the floor

below.

Which type of antennas are recommended for the APs that provide the overhead coverage?

A. high gain directional

B. high gain omnidirectional

C. downtilt

D. Yagi

Correct Answer: A

QUESTION 4

Case study

A customer needs a wireless network upgrade for 802.11ac and possibly an upgrade to the wired network.

The customer requires dual-radio 802.11ac APs, each radio of which can support 4x4 MIMO at full feature

set.

The customer has given architects this information about their wireless devices:

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a local power source

4 on floor 1 of each of the 3 buildings

2 on the other 6 floors

The architect also has collected information about the existing wired network.

The existing access layer switches support these features:
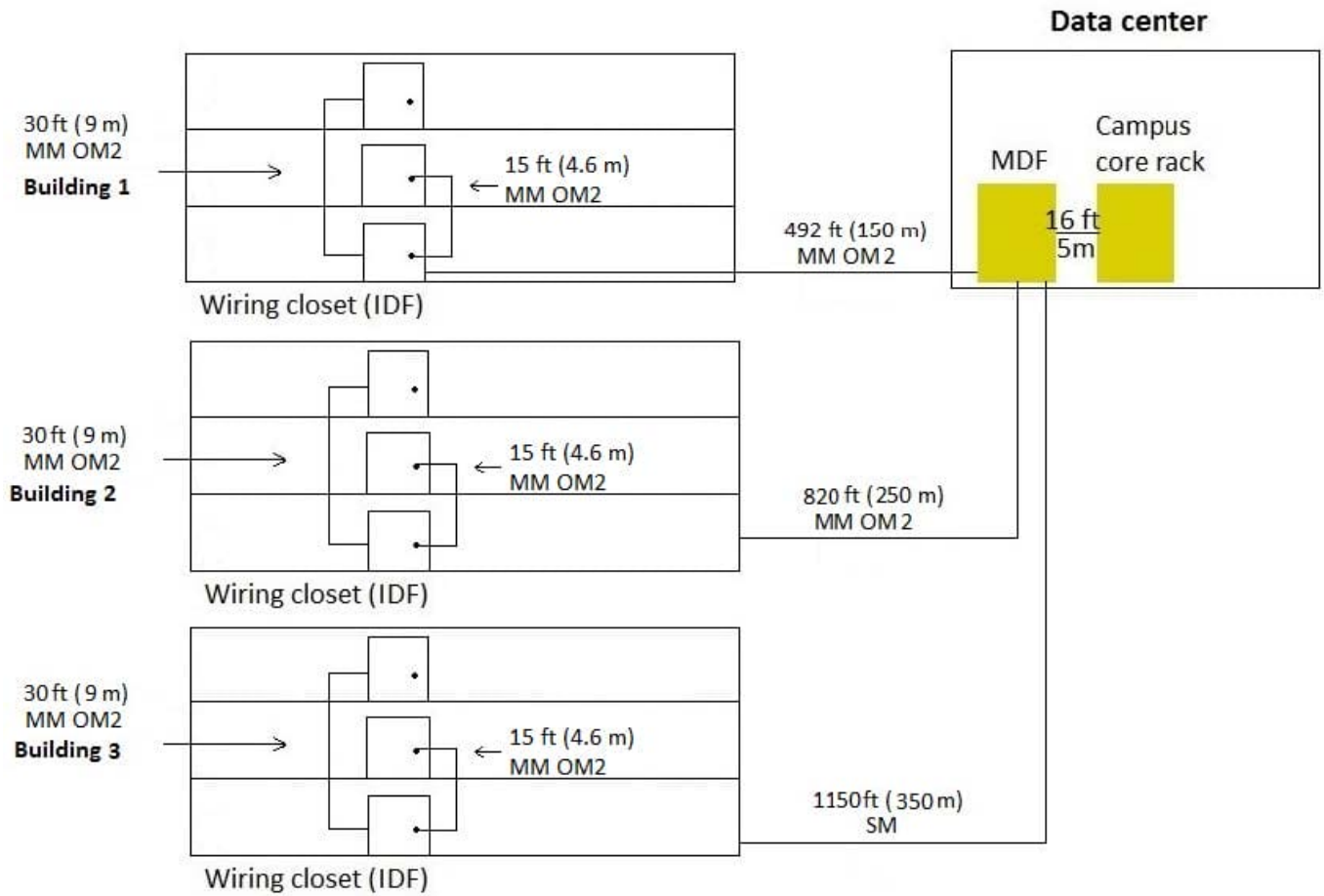
10/100/1000 edge ports

PoE (802.3af)

1GbE fiber uplinks

The existing aggregation switches support these features:

1/10GbE fiber ports

ARP tables up to 62,000

The customer has provided this figure that shows the existing cabling between floors and between

buildings:

Each floor is about 100 feet (30 m) by 140 feet (43 m) with a 10 foot (3 m) ceiling. Interior walls are drywall. The layout for each floor is similar to that shown below. CAT5e cable is extended to all areas.

Wiring closet

What is one change to the existing network that the architect should recommend to meet the new customer

requirements?

A. upgrade to at least CAT7 cable for all the wired drops

B. upgrade to MM OM3 fiber between the floors

C. new aggregation layer switches to support larger ARP tables

D. new access layer switches to support PoE+

Correct Answer: B

QUESTION 5

Refer to the exhibit.
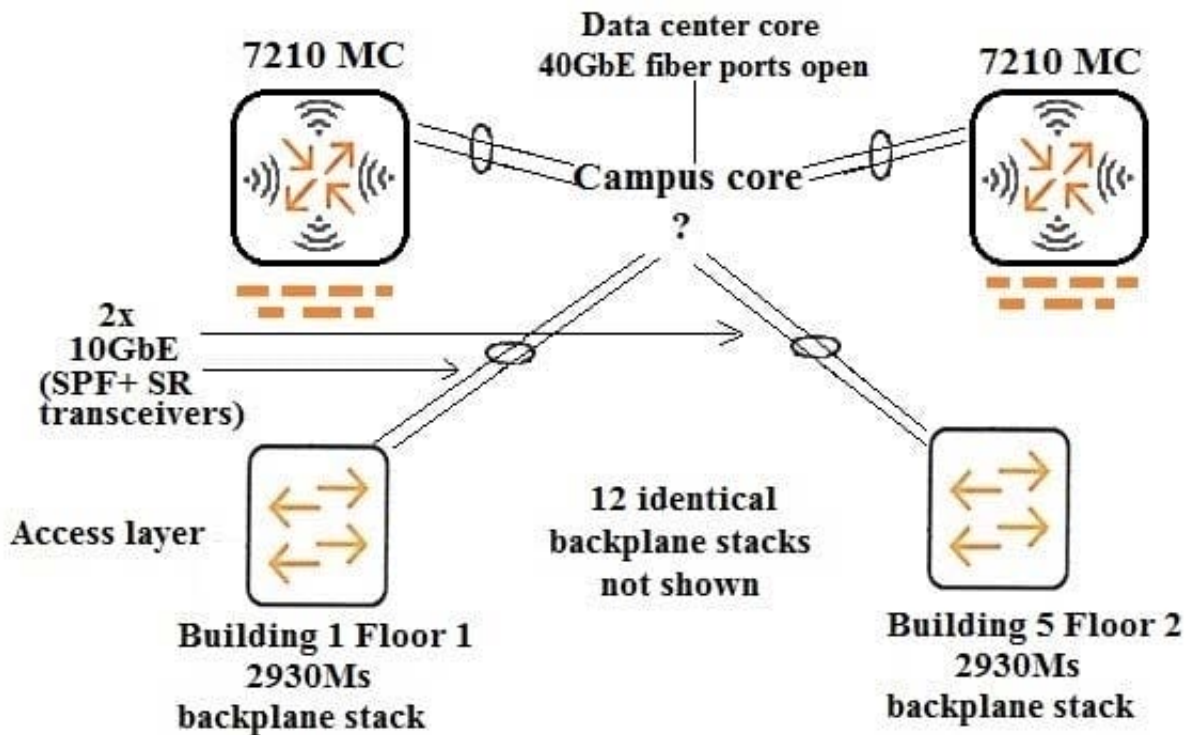
Exhibit: A49.01114316-77

An architect has planned the wireless and wired access layers for a network upgrade. The entire solution

must support 9,000 wireless devices and 2,250 wired endpoints.

The campus core must meet these requirements:

no more than 4:1 oversubscription on the links to the data center

switch-level redundancy near instant failover if one core switch fails link aggregations between access layer and core
same switch software used across the entire campus

Which exhibit shows a campus core that meets the customer needs?

A.

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter...	$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter...	$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter...	$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$6,799.00	4
1.08	JL308A	Aruba 40G QSPF+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	$419.00	2
		Quote Total			

B.

C.

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter...	$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter...	$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter...	$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$6,799.00	4
1.08	JL308A	Aruba 40G QSPF+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
		Quote Total			

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter...	$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter...	$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	$419.00	2
		Quote Total			

D.

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter...	$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter...	$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
		Quote Total			

Correct Answer: B