

✔ **Congratulations! You passed!**

Grade received **100%** To pass 75% or higher

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1. What are some of the challenges associated with online payments using credit cards? Select all that apply.

1 / 1 point

✔ Paying with a credit card over the Internet is never completely secure.

✔ **Correct**

When paying with a credit card over the Internet, users have to give away their personal data to third parties and trust those third parties to protect it.

✔ Transaction fees are too high for small payments.

✔ **Correct**

It costs money for businesses to process credit card payments. Credit card processing companies charge merchants a fee for each credit card purchase made.

✔ Users have to give away their personal data to third parties, which are vulnerable to security breaches.

✔ **Correct**

Time and time again, trusted third parties have proven vulnerable to security breaches.

✔ It excludes billions of unbanked people from the global economy.

✔ **Correct**

Around 2 billion people on this planet can't afford a bank account.

2. Who authored the 2008 paper describing a protocol for a peer-to-peer electronic cash system, including a cryptocurrency called bitcoin?

1 / 1 point

☐ David Chaum

☐ Nick Szabo

☒ Satoshi Nakamoto

☐ Vitalik Buterin

✔ **Correct**

Satoshi Nakamoto is the name used by the unknown person(s) who developed bitcoin, authored the bitcoin white paper, and created and deployed bitcoin's original reference implementation.

3. What is the relationship between *bitcoin* and *blockchain*?

1 / 1 point

☐ Bitcoin and blockchain mean the same thing and these terms can be used interchangeably.

✔ Bitcoin is a specific type of cryptocurrency, whereas blockchain is the protocol that underlies bitcoin and other kinds of cryptoassets.

✔ **Correct**

Bitcoin is the cryptocurrency, and blockchain is the protocol.

✔ Bitcoin represents the first implementation of the blockchain protocol.

✔ **Correct**

Bitcoin was the first implementation of the blockchain protocol.

✔ Bitcoin requires blockchain in order to operate.

✔ **Correct**

Bitcoin does require the blockchain protocol in order to operate.

4. In principle, a blockchain is:

1 / 1 point

✔ Immutable

✔ **Correct**

It is incredibly difficult and expensive for bad actors to tamper with data recorded in a blockchain.

☐ Centralized

✔ Append-only

✔ **Correct**

On a blockchain, previous transactions are not altered; only new transactions are added.

✔ Distributed

✔ **Correct**

A blockchain runs on a distributed network of computers.