MODULE F THE INTERNET · F5

Digital currency and blockchain

Original practice questions · 20 marks · ~25 minutes · Cambridge 0478 syllabus 5.2.1, 5.2.2

Name _____ Date _____

Instructions. Answer all questions in the spaces provided. The marks for each part are shown in brackets [ ]. The total for this worksheet is **20 marks**.

1

Total: 5 marks

(a) Tick (✓) **one** box in each row to show whether each statement is true or false. **[5]**

Statement	True	False
A digital currency can be used to pay for goods and services		
A payment in a digital currency is made by handing over physical coins or notes		
A blockchain stores a time-stamped series of records		
Once a transaction is stored in a blockchain, it can be edited to correct a mistake		
Each new block in a blockchain is linked to the block before it		

2

Total: 3 marks

A workshop makes wooden tables and sells them on its website. Customers can choose to pay in a digital currency.

(a) Define the term **digital currency**. **[1]**

(b) Describe how a customer uses the digital currency to pay the workshop for a table. **[2]**

3 **Total: 6 marks**

A delivery firm pays its drivers in a digital currency. Every payment the firm makes is tracked using a blockchain. Part of the blockchain is shown.



(Block 3 is the newest block)

(a) Identify **two** items of data that are stored in each block. **[2]**

(b) The firm makes a new payment to one of its drivers. Describe how this payment is recorded in the blockchain. **[4]**

4 **Total: 4 marks**

A driver says that a payment recorded in Block 2 was for less than the amount they were owed. The driver asks the firm to change the amount stored in Block 2.

(a) Explain why the amount stored in Block 2 cannot be altered. **[3]**

(b) Suggest how the firm could give the driver the rest of the money they are owed. **[1]**

5 **Total: 2 marks**

The firm's accountant needs to check all the payments the firm made to drivers in October 2026.

(a) Explain how the blockchain helps the accountant to do this. **[2]**

Total for this worksheet: 20 marks