

6 Data can be encrypted using asymmetric encryption.

(a) Complete the paragraph about asymmetric encryption.

Use the terms from the list.

Some of the terms in the list will **not** be used. You may use a term more than once.

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|-----------|-------------|--------------|-------------|---------|
| algorithm | binary | cipher text | compression | error |
| hardware | hexadecimal | meaningless | plain text | private |
| public | readable | transmission | unreadable | |

Data is encrypted using an encryption key. This is a type of
that scrambles the and turns it into
..... This makes the data
A key is used to encrypt the data. This key cannot be used
to decrypt the data. A key is used to decrypt the data. Any
device is able to request the key, but only your device
knows the key.

[8]

(b) Data can also be encrypted using symmetric encryption.

Give **one** reason why a person would use asymmetric encryption instead of symmetric encryption.

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..... [1]