

# Why Systems are Attacked

## Task 1

(a) There are many reasons why systems are attacked. The table below lists six different categories of reasons why systems are attacked. For each provide an explanation. The first is given for you.

Reason	Explanation
<b>Fun/Challenge</b>	Gaining unauthorised access due to wanting to 'beat' the system or impress others.
<b>Industrial Espionage</b>	
<b>Financial Gain</b>	
<b>Personal Attack</b>	
<b>Disruption</b>	
<b>Data Theft</b>	

(b) Cyber attacks are often for financial gain. This can be direct or indirect. Explain what we mean by direct and indirect financial gain.

Direct financial gain \_\_\_\_\_

\_\_\_\_\_

Indirect financial gain \_\_\_\_\_

\_\_\_\_\_

(c) What are two common methods of attack used when disruption is the reason why the system is attacked?

1. \_\_\_\_\_

2. \_\_\_\_\_

(d) Personal attacks are often performed by disgruntled employees who are trying to gain revenge for some reason, such as because they were fired. Research a real-life example of where an employee has attacked their employer/former employer as revenge. Summarise your findings below.

---

---

---

---

## Task 2

(a) Different reasons for attacks often lead to specific impacts. Match up the reasons for the attacks with the impacts you believe are most likely to occur. Tip: some reasons will have more than one likely impact and vice versa.

<b>Fun/Challenge</b>	<b>Data Loss</b>
<b>Industrial Espionage</b>	<b>Damage to Public Image</b>
<b>Financial Gain</b>	<b>Financial Loss</b>
<b>Personal Attack</b>	<b>Reduction in Productivity</b>
<b>Disruption</b>	<b>Downtime</b>
<b>Data Theft</b>	<b>Legal Action</b>

Share your findings when completing the previous task with a classmate. Did they find the same results as you?

(b) What legislation may lead to you suffering large fines if you have private data stolen during a cyber security attack?

---

(c) Visit the website <https://haveibeenpwned.com/> and enter an email address you use. Answer the following questions.

i. Has your data been compromised in a data breach?

---

ii. What data about you has been compromised?

---

iii. Where passwords were stolen, were they encrypted/hashed?

---

iv. What might an impact of this be on you?

---