



Name:

Date:

Score:

CHECKPOINT 8

VPN Case Studies & Cipher

Interactive Student Worksheet & Study Guide

Based on the VPN.com VPN Guide: <https://www.vpn.com/vpn/>

Checkpoint 8: VPN Case Studies

Apply the concepts you have learned to solve the real-world scenarios below.



SARAH (COFFEE SHOP STUDENT)

"Hey! I'm sitting at Coffee & Bytes. There's an unsecured public network called 'Free_Wi-Fi_No_Password'. I want to log in to my school email and upload my assignment, but I'm worried about hackers. What are the risks of using this network without a VPN, and how does a VPN secure my data?"



ALEX (TRAVELER STUDENT)

"Oh no! I'm traveling abroad for a project and trying to watch a biology documentary hosted on a server in my home country. But the site says 'This video is not available in your current location.' Why am I blocked, and how can a VPN help me watch it?"

Final Challenge: Decrypting the Cipher

A VPN encrypts your traffic to secure it. Use the Letter-to-Number key below to decrypt the cybersecurity message by writing the matching letters in the blank spaces.

LETTER-TO-NUMBER ENCRYPTION KEY

A=1	B=2	C=3	D=4	E=5	F=6	G=7	H=8	I=9	J=10	K=11	L=12	M=13
N=14	O=15	P=16	Q=17	R=18	S=19	T=20	U=21	V=22	W=23	X=24	Y=25	Z=26

16	18	15	20	5	3	20	25	15	21	18		

16	18	9	22	1	3	25	23	9	20	8	1	

19	5	3	21	18	5	20	21	14	14	5	12	

Decoded cybersecurity message:

TIP: EACH NUMBER REPRESENTS THE POSITION OF THAT LETTER IN THE ALPHABET (E.G. 1 = A, 2 = B, 26 = Z).