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GRAND CANYON UNIVERSITY

Hypothesis Statements – Overview and Template

This document contains definitions, examples, and a template to complete for your assignment.

Hypothesis Statements Overview

A hypothesis is a prediction about the relationship between two variables. Hypothesis statements often start as an educated guess about how one variable affects a second variable. A hypothesis statement must be testable (i.e., you can verify or falsify with observable evidence).

Most hypothesis statements are in the form of an If-Then statement. Examples of If-Then statements are:

- If you drink coffee before going to bed, then you will take longer to fall asleep.
- If you get at least 8 hours of sleep, you will do better on tests than if you get less sleep.
- If you reduce your consumption of sugar, you will lose weight.

A good hypothesis contains the following elements listed below:

1. The dependent variable(s) Who or what you can vary or control.
2. The independent variable(s) Who or what you predict will affect the dependent variable.
3. What you predict the effect will be.

A good hypothesis statement is written as, IF (the Dependent Variable) THEN (Independent Variable) is affected in a specific way.

Assumptions Versus Hypothesis

The relationship differences between an assumption and a hypothesis:

- Assumptions are vague, optimistic, and unrealistic. Vague has no predicted outcome.
- Hypotheses must be specific to be tested. You can design experiments to generate data that support or reject your hypothesis.

Here are some examples of assumptions vs. hypotheses:

Assumption	Hypothesis	Independent Variable (IV)	Dependent Variable (DV)
If you drink coffee before going to bed, then you will take longer to fall asleep.	Consumption of 500 mg of coffee within 1 hour of bedtime will delay time to fall asleep by over 30 minutes.	Caffeine consumption	Time to fall asleep

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Use an em-dash – →

Possible wordiness in specific way

If you get at least 8	Students who sleep a	Number of hours of	Test score

<u>holl do b e l e p o r o u s s</u> <u>han f you ge less</u> <u>sleep</u>	<u>teah b b i e s w i l l h e</u> <u>mp ove es sco es by</u> <u>10%</u>	<u>sleep</u>	<u>mp ovemen</u>
If you educe you consump on of suga , you w ll lose we gh	Pa en s who educe suga consump on o below 25 g ams da ly fo 90 days w ll expe nce 2% we gh loss	Suga consump on ove he nex 90 days	We gh loss

Hypothes s Best Pract ces

Rev ew he examples p ov ded below fo ps on w ng a s ong hypo hes s

<u>Symptom</u>	<u>F x</u>
<u>A e he e vague wo ds l ke "some people" o "cus ome"?</u>	<u>Be spec f c C ea e a well-def ned pe sona</u> <u>demog aph c g oup you a e a ge ng</u>
<u>Can be measu ed spec f cally, o does con a n vague</u> <u>concep s ha canno be es ed?</u>	<u>C ea e a measurable hypo hes s El m na</u> <u>"maybe," "be e," "some," and conve o</u>
<u>Is ac ually sky?</u>	<u>If s no uly sky, s no relevant an</u> <u>es ed gh now (I may ge sk e la e a</u>
<u>Has a second se of eyes looked a ?</u>	<u>Eve yone has bl nd spo s Check you wo</u> <u>en ep eneu and ask he pe son o gh en</u> <u>make su e s spec f c, measu able, and</u>

Part 1 – Wr te a Hypothes s Template

Instructions: Selec one p oble m s a emen and c ea e h ee ve s ons of hypo heses s a emen s fo
h s p oble m Documen he p oble m s a emen above he cha and comple e each ow and
column as d ec ed n he ass gnmen Then, w e a 250-wo d summa y based on he p omp a
he bo om of h s documen

P oble m s a emen Global
Infla on

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Use an m-dash - → -

Spe ng m stake G oba → g oba

Spe ng m stake nf at on

	<u>Good Hypothes s</u>	<u>Better Vers on</u>	<u>Best Vers on</u>	<u>Independent Var s</u>
	<u>Example:</u> <u>The add on of</u> <u>fesh wa e wells</u> <u>w h n R o de</u> <u>Jane o w ll help</u>	<u>Example:</u> <u>The add on of fesh</u> <u>wa e wells w h n R o</u> <u>de Jane o w ll nc ease</u> <u>c zens' heal h</u>	<u>Example:</u> <u>The add on of seven fesh</u> <u>wa e wells h e own of</u> <u>Roz nho, (nea R o de</u> <u>Jane o) w ll dec ease</u> <u>doc o v s s by 20%</u>	<u>Example:</u> <u>Fesh wa e wells</u>
1	The dec ease n global nfla on a es w ll help	The dec ease n he global nfla on a es w ll help lowe he cos of cos of l v ng	The dec ease n global nfla on a es by 2% w ll lowe he cos of l v ng by 15%	Infla on a e
2	The pol ces of he Fede al Rese ve Bank w ll help	The pol ces of he Fede al Rese ve Bank w ll help o educe nfla on a es	The nc ease n Fede al Rese ve Bank n e es a es by 0 75% w ll educe nfla on a es by 2 7%	In e es a es
3	Sell ng of Fede al Rese ve Bank T easu y bonds w ll help	Sell ng of Fede al Rese ve Bank T easu y bond w ll help educe money supply	Sell ng 30% of he Fede al Rese ve Bank T easu y bonds w ll help educe money supply 20%	T easu y bonds

Part 2 – Wr te a Summary of Your Hypothes s Statement

W e a 250-wo d desc p on of you f nal hypo hes s s a emen Desc be he ndependen and
dependen va ables, and desc be how you would ob ec vely def ne a measu able, es able,
replacable, and mean ngful hypo hes s How s you hypo hes s measu able? How w ll you es
?

Summary of my Hypothes s

The ndependen va ables n my hypo hes s s a emen a e nfla on a e, n e es a es and
T easu y bonds These va ables mpac s on he dependen va ables wh ch a e cos of l v ng,
nfla on and money supply H gh nfla on a es e odes he pu chas ng powe of money, leads o

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Use an m-dash - → -

Poss b e agreement error mpacts

nc eases n he p ces of p oduc s and se v ces and pushes he cos of l v ng o he oofs The
mpac s of nfla on he cos of l v ng can be measu ed and es ed ob ec vely by compa ng
he p ce of ange of p oduc s and se v ces on wh ch consume s spends money In h s ega d my
hypo hes s can be es ed by compa ng he p ces of p oduc s and se v ces ove me The

3



Possible agreement error spends

pe s s en nc ease n p ces of p oduc s and se v ces w ll mean h gh nfla on wh ch w ll ansla e
o h gh cos of l v ng Bes des, he mpac s of n e es a es n educ ng nfla on can be measu ed
ob ec vely and es ed consume p ce ndex Fo ns ance f he consume p ce ndex s h gh
means ha nfla on s h gh hus he Fede al Rese ve Bank can nc ease he bank n e es a es
hus nc eas ng he cos of bo ow ng and consequen dec ease n money n c cula on hus
dec ease n nfla on Ano he c cal way ha he Fede al Rese ve Bank can educe nfla on
and secu e he cos of l v ng s by sell ng easu y bonds When he Fed Rese ve Bank sells
easu y bonds h ough he open ma ke ope a ons ge s money f om he publ c hus educ ng
he money supply hus lead ng n dec ease n nfla on Th s hypo hes s can be es ed by
measu ng he consume p ces ndex o de e m ne f he nfla on has d opped

4



Punctuation error, sentence looks When