



CA1 1.4 Experimental Design Puzzle

Complete the puzzle below. When you finish, a message will be displayed.

		1	B	2	D	3	E	4	G	5	G	6	I	7	D	8	9	G	10	I	11	I	12	S	13	E	14	B	15	E	16	B	17	F	18	H	19	20	C									
21	F	22	I	23	D	24	J	25	E	26	R	27	O	28	A	29	E	30	I	31	T	32	T	33	R	34	F	35	E	36	X	37	P	38	E	39	R	40	I	41	M							
42	D	43	G	44	T	45	S	46	I	47	G	48	V	49	C	50	D	51	F	52	D	53	J	54	H	55	I	56	V	57	E	58	E	59	A	60	I	61	B									
	62	O	63	U	64	G	J	65	U	66	D	67	J	68	G	69	M	70	E	71	D	72	F	73	I	74	B	75	I	76	C	77	H	78	S	79	O	80	M	81	E	82	B					
83	I	84	M	85	S	86	E	87	E	88	C	89	E	90	I	91	E	92	S	93	I	94	S	95	I	96	S	97	I	98	S	99	E	100	C	101	E	102	C	103		104	A					
105	U	106	S	107	E	108	T	109	E	110	X	111	E	112	C	113	T	114	U	115	U	116	T	117	S	118	U	119	T	120	S	121	W	122	H	123		124		125								
126	I	127	C	128	H	129	R	130	X	131	E	132	R	133	M	134	E	135	R	136	O	137	V	138	R	139	E	140	U	141	S	142	E	143		144		145		146		147						
148	S	.	-	-	149	E	150	R	151	O	152		153		154		155		156		157		158		159		160		161		162		163		164		165		166		167		168		169		170	

Answer questions and transpose letters into Quotation grid. Words in quotation end at filled squares.

- A. $\frac{28}{18} \frac{104}{12} \frac{162}{15} \frac{59}{10}$
An observation agreed upon by the majority of relevant experts.
- B. $\frac{Y}{74} \frac{112}{12} \frac{129}{10} \frac{82}{14} \frac{1}{61} \frac{16}{116}$
A testable, educated prediction.
- C. $\frac{92}{153} \frac{20}{160} \frac{158}{101} \frac{149}{49}$
Something which can be measured or observed.
- D. $\frac{42}{2} \frac{134}{52} \frac{50}{163} \frac{7}{23} \frac{71}{141}$
A test of a hypothesis.
- E. $\frac{58}{140} \frac{87}{132} \frac{3}{35} \frac{152}{155} \frac{81}{29} \frac{13}{13}$
The variable which you select or control. (The cause)
- F. $\frac{157}{34} \frac{21}{85} \frac{17}{51} \frac{118}{161} \frac{72}{72}$
The variable which you observe. (the effect)
- G. $\frac{108}{9} \frac{96}{4} \frac{64}{100} \frac{47}{5} \frac{137}{43} \frac{68}{68}$
Variables which could cause the effect, if you let them.
- H. $\frac{18}{77} \frac{54}{151} \frac{117}{117} \frac{Y}{Y}$
An explanation which helps build hypotheses and explain observations.
- I. $\frac{46}{30} \frac{10}{130} \frac{22}{22} \frac{A}{99} \frac{121}{121} \frac{A}{73}$
A very old and trusted theory.
- J. $\frac{A}{144} \frac{F}{98} \frac{53}{53} \frac{24}{24} \frac{119}{119}$
In an experiment, you change the independent variable to learn how it _____ the dependent variable.