

Vic Skeptics September 2019 Crossword

Theme – Logical Fallacies #6 by Ken Greatorex

_								1										1				ı	1			1					
					1				2		3				4			5		6		7		8			9				10
11			12				13															14									
													15											16		17		18			
					19																										Н
20								21								22							23								
20								21								22							23								
							24								25						26										27
			28						29			30						31						32							
											33			34							35			36			37		38		
39		40			41					42			43			_	_									44					-
		10																			L					<u> </u>				L	
				45					46				47					48		49											
50							51		52											53		54				55					
											56				57											58		59		60	
61					62			63												64							65				
-								66						67					68							69				<u> </u>	
70													71					72									74		75	<u> </u>	
70													/1					/2								/3	74		75		
											76				77		78				79										
80			81					82	83	84									85	86											87
									88						89								90		91				92		
-				93		94																									
95			96						97										98	99		100									
																	100											107			
			101										102				103	104										105			
106									107	108					109					110							111				
			112			113		114																							
115		116						117				118		119		120					121										
-		122								123										124											
125					_									127	120										129						130
	120													127	120										129						130
131							132			133	134		135					136													
						137			138				139																		
					140				141								142										143				\vdash
144													145																		$\vdash\vdash$
												146						147													
												170						<u> </u>													

ACROSS:

- 4. & 8 across: An argument which employs circular reasoning: *Example: The Bible is the Word of God. The Bible tells us so and it's infallible; it's the Word of God.* [8, 8]
- 8. See 4 across
- 11. & 13 across: Drawing a conclusion based on a sample that is selectively chosen in order to make it appear that the "average" is different than it actually is. *Example: "A survey of 1000 Victorian households revealed those surveyed have two or more wide-screen HD TVs each. Therefore, Victorians are very wealthy".* Unfortunately, all households surveyed were in Toorak. [6, 6]
- 13. See 11 across
- 14. As played on a G string [3]
- 15. Judgement or decision reached by reasoning based on evidence [10]
- 16. (Of air) Having a low pressure at high altitude compared to that at sea level [8]
- 20. Sailing ship circa 15th to 18th centuries [7]
- 21. Reputation gained through achievement [7]
- 22. Religious devotion and/or spirituality [5]
- 23. The available body of facts or information on which a valid argument can be based [8]
- 28. & 29 across & 30 across: Irrelevant assertion that qualities of one thing are inherently qualities of another. *Example: Hitler liked dogs. Therefore dogs are bad.* [5, 2, 11]
- 29. See 28 across
- 30. See 28 across
- 32. Method of philosophical debate using a series of questions to stimulate critical thinking and to draw out ideas [8]
- 34. Separate, split, cleave [6]
- 35. Not correct or provable [7]
- 39. One of the sides in a competitive game [4]
- 41. Cut down with a scythe or machine [4]
- 42. Homeless child [4]
- 44. Amount produced [6]
- 47. Set of reasons given to support an idea or proposition [8]
- 50. Attempted expulsion of a supposed evil spirit [8]
- 52. Internet address [3]
- 53. Chinese coastal megalopolis [8]
- 56. Item of value based on usefulness [5]
- 58. Formalised argument [6]
- 61. Interrogated [10]

- 64. Extreme fear [6]
- 65. State of matter [5]
- 66. Silicate of beryllium and aluminium sometimes used as a gemstone [5]
- 67. Perceives the presence or existence of [7]
- 70. Conversion of information or data into code [10]
- 72. Bind, tether [3]
- 73. Not sweet [6]
- 76. Hurl [5]
- 79. Initial proposition from which others logically follow [7]
- 80. Language forming the basis of Filipino [7]
- 82. Hindu discipline, widely practised for health and relaxation [4]
- 85. Slippery fish [4]
- 88. & 89 across: An argument that draws comparisons between two situations based on similarities which don't apply. *Example: If evolution is random, then it's like having an explosion in a rubbish tip that causes a working space shuttle to self- assemble.* [5, 7]
- 89. See 88 across
- 91. Triumph, overcome [7]
- 93. Taxonomic category between species and family [5]
- 95. Lowest point [5]
- 97. Biblical song [5]
- 98. & 100 across: Literally, "You Too". A.k.a. an Appeal to Hypocrisy, the two wrongs fallacy, or the pot calling the kettle black. It dismisses someone's point of view based on criticism of the person's inconsistency, and not the position presented. Example: A mother tells her daughter to stop smoking; It's harmful to her health. The daughter replies: "Why should I listen to you? You started smoking when you were 16!" [2, 6]
- 100. See 98 across
- 101. More haggard [7]
- 102. Period of time before the present [3]
- 103. Sudden strong wind [4]
- 105. Thick slice of pork or lamb, often including a rib [4]
- 106. Building remains of interest to archaeologists [5]
- 107. Banded form of chalcedony, often used as gem material [4]
- 109. Utters words [4]
- 110. In a superior position [5]
- 112. Major artistic work e.g. of music or literature [4]

- 114. Enemy [3]
- 115. Impoverished [4]
- 117. Foo fighter, for one [3]
- 118. Summarised by: "I cannot explain or understand that, therefore it can't be true" Example 1: The Ancient Egyptians could not have had the technological know-how to construct the pyramids (therefore they must have had help from extra-terrestrials). Example 2. "The Moon Landings represent such an unbelievably rapid development in aerospace technology in such a short time that they must have been staged" [8, 11]
- 121. See 118 across
- 122. Style of architecture, music or art prevalent in 17th and 18th centuries [7]
- 123. Opposite of Aye [3]
- 125. Element number 26 [4]
- 127. Factual, real, accurate [4]
- 129. Class of resins including adhesives and plastics [5]
- 131. Language designed to have a persuasive or impressive effect, but which is often regarded as lacking in sincerity or meaningful content [8]
- 133. The argument that a case is an exception to a rule based upon an irrelevant characteristic. Also called *ad hoc reasoning*. *Example 1: Water Diviners perform badly when scientifically tested because the scrutiny interferes with the divining process.*Example 2: Tobacco has many health risks but should not be treated like other drugs because it has a long social history and taxing tobacco provides much revenue [7, 8]
- 136. See 133 across
- 137. Skill and sensitivity in one's dealings [4]
- 139. Sharpen [4]
- 140. & 141 across: A form of misdirection; introducing a topic not related to the subject at hand. Example: "Why should we save the environment? The Garden of Eden might have been a nice place to live, but it wouldn't suit modern people". [3, 7]
- 141. See 140 across
- 142. A small organized dissenting group within a larger political one [7]
- 143. A number of similar people or objects collected together [5]
- 144. Firearm's receptacle for a bullet [7]
- 145. Sodium's symbol [2]
- 146. & 147 across: The arbitrary reduction of many possibilities to only two. 43 down by another name. Example 1: He is an enemy of my enemy therefore he must be my friend. Example 2: "Australia Love It Or Leave It" [5, 9]
- 147. See 146 across

DOWN:

- 1. & 19 down: Attacking the person, not the argument. *Example: Sydney shock-jock and climate change denier Alan Jones describes New Zealand PM Jacinda Ardern as an airhead for having an opposite view.* [2, 7]
- 2. Unchangeable [9]
- 3. Detective [6]
- 4. Object which tapers from a circular base to a point. [4]
- 5. & 31 down & 48 down: (Confusion of ______) A Teleological Argument, also called Argument from Final Consequences. The Contention that if A and B regularly occur together, A is the cause of B. Example 1: The earth is an ideal place for humans to live, therefore it must have been designed that way. Example 2: People who are severely ill are very often depressed and angry. Thus, the cause of severe illness actually is depression and anger. So, a cheerful attitude is key to staying healthy. [5, 3, 6]
- 6. Non-clerical members [5]
- 7. Tirade, harangue, diatribe [4]
- 8. Reaches one's destination [7]
- 9. Employ [3]
- 10. Undulation of sea levels in response to gravitational attraction [4]
- 11. & 39 down & 61 down: A conclusion is assumed within a question. *Example:* When are you going to stop beating your wife? [7, 3, 8]
- 12. Deductive scheme of argument consisting of a major and a minor premise and a conclusion. *Example: Major premise: Plants need to carbon dioxide to live. Minor premise: Gum trees are plants. Conclusion: Gum trees need carbon dioxide to live.* [9]
- 15. Cadaver [6]
- 17. & 55 down & 69 down: If the premises lead to an absurd conclusion then the premises must be wholly or partly wrong. This reasonable principle has suffered abuse. *Example: If I don't believe in ghosts I must necessarily not believe in atoms, since I haven't actually seen either.* [8, 2, 8]
- 18. Relating to moulds, yeast, mushrooms and toadstools [6]
- 19. See 1 down
- 24. & 51 down: Where an adversary's actual position or argument is misrepresented. Example 1: Skeptics oppose homeopathy because it conflicts with their world view (not because Scientific testing consistently exposes Homeopathy as valueless)

Example 2:

Person A: "Genetically modified crops need to be more closely regulated" Person B: "If we stop farmers from growing GM crops, we will starve"

- B argues against eliminating GM crops, not regulating them. [5, 3]
- 25. & 57 down & 77 down: Arbitrarily shifting the requirement for proof beyond the range of current evidence: *Example: Creationists demand to see evidence of an intermediate fossil between species A and C, for which an evolutionary relationship is postulated. Species B is discovered and fits the criteria. Now there are demands: for intermediates between A & B and B & C. [6, 3, 9]*
- 26. Process of reasoning employing strict principles of validity [5]
- 27. Widely spread [9]
- 31. See 5 down
- 33. & 76 down: a Logical Fallacy that says if an argument contains a logical fallacy, the entire proposition is wrong. *Example: A says "Spot is an animal. All dogs are animals. Spot must be a dog." B replies "That's illogical! Therefore Spot can't be a dog."* [7, 7]
- 36. Historical Papal seat, alternative to Rome [7]
- 37. Moral or legal obligations or responsibilities [6]
- 38. & 75 down & 92 down: Supporting your argument with the views of a prominent person when it is inappropriate to do so. *Examples: 1. Linus Pauling says that Vitamin C cures colds and he's got a Nobel prize in Chemistry. 2. Ricky Ponting says I'll feel better if I use Swisse pharmaceuticals and he's a former champion cricketer.* [6, 2, 9]
- 39. See 11 down
- 40. Of mud-brick construction [5]
- 43. & 71 down: Giving two choices when in actuality there could be more choices possible. 146 across by another name. [5, 7]
- 45. Rabbit's tail [4]
- 46. & 83 down & 97 down: The more rational side of an argument is called upon to justify its position by its less rational opponents. *Example: I talk with dead people. Explain that, Skeptics!* [6, 2, 5]
- 48. See 5 down
- 49. Vector of sleeping sickness [6]
- 51. See 24 down
- 54. Overdue monetary debt [7]
- 55. See 17 down
- 57. See 25 down
- 59. Short period of specific intense activity [4]
- 60. Become weary [4]
- 61. See 11 down

- 62. Get better [7]
- 63. Dark brown to black ornamental timber [5]
- 68. Interruptions in periods of play in some games during which the clock is stopped [8]
- 69. See 17 down
- 71. See 43 down
- 74. "That is" [2]
- 75. See 38 down
- 76. See 33 down
- 77. See 25 down
- 78. Comparison between one thing (known) and another (under scrutiny) in an attempt to draw parallels. *Example: I feel like a fish out of water* [7]
- 79. Layer laminated material [3]
- 81. & 96 down: The argument from ignorance; The argument that a belief is true because we don't know that it isn't true. *Example: The brain is complicated and not yet thoroughly understood, so it's likely that ESP is possible* [2, 11]
- 83. See 46 down
- 84. Element # 31's symbol [2]
- 86. "For example" [2]
- 87. & 130 down: The idea that a position is untenable because to accept the position would necessarily require one to accept the extreme. *Example:*Pornography should not be banned, because once any form of literature can be banned, it will not stop. It will lead to burning all the great books. [8, 5]
- 90. Using the same term in an argument in different places; but the word has different meanings in each case. Example: Evolution states that one species can change into another. We see that cars have evolved into different styles. Therefore, since evolution is a fact in cars, it is true in species [12]
- 92. See 38 down
- 93. Seize and hold [5]
- 94. & 113 down: Logical fallacy where a stated conclusion is not supported by its premise. Example 1: All men are human. Mary is human, therefore Mary is a man. Example 2: Homeopathic medicines have no side effects therefore they are better than prescription drugs [3, 8]
- 96. See 81 down
- 97. See 46 down
- 98. US state [4]
- 104. Habitual, typical, customary [5]

- 106. Fix [6]
- 108. Inert gas [4]
- 111. A phrase or expression in which the same thing is said twice in different words. *Examples:*
 - 1. My first priority is to lose weight.
 - 2. I went there personally [9]
- 113. See 94 down
- 114. Source of chemical or nuclear energy [4]
- 116. Musical instrument [4]
- 118. Funereal fire-stack [4]
- 119. Based on reason; logical [8]
- 120. The part of the ovary of seed plants that contains the female gamete and after fertilization becomes the seed. [5]
- 124. One who aspires to form or alter opinions based only on the best available evidence [7]
- 126. Regularly repeating pattern in music typically set by percussion and base elements [6]
- 128. Telephoned [4]
- 129. Self-interest [6]
- 130. See 87 down
- 132. A man who behaves dishonourably, especially towards a woman [3]
- 134. Unsullied [4]
- 135. Porcelain, for example [5]
- 135. Tartan [5]
- 138. Melt [4]
- 140. Latin King [3]

SOLUTION

					Α				ı		S				С	ı	R	С	U	L	Α	R		Α	R	G	U	М	Ε	N	Т
В	ı	Α	S	Ε	D		S	Α	Μ	Р	L	Ε			0			Α		Α		Α	ı	R			S				1
Ε			Υ						Μ		Ε		С	0	Ν	С	L	U	S	Ι	0	Ν		R	Α	R	Ε	F	ı	Ε	D
G			L		Н				U		U		0		Ε			S		Т		Т		1		Ε		U			Ε
G	Α	L	L	Ε	0	Ν		S	Т	Α	Т	U	R	Ε		Р	ı	Ε	Т	Υ			Ε	٧	ı	D	Ε	Ν	С	Ε	
I			0		М		S		Α		Н		Р		Μ						L			Ε		U		G			S
N			G	U		L	Т		В	Υ		Α	S	S	0	С	ı	Α	Т	I	0	N		S	0	С	R	Α	Т	I	С
G			-		Ν		R		L				Ε		٧			Ν			G					Т		L			Α
			S		E		Α		Ε		F			D	_	V	_	D	Ε		Ι	Z	٧	Α	L	_	D		Α		Т
Т	Ε	Α	М		М	0	W	N		W	Α	I	F		N						С			٧		0	U	Т	Р	U	Т
Н		D		S					В		L		Α	R	G	U	М	Ε	Ν	Т				1			Т		Р		Ε
Ε	Χ	0	R	С	I	S	Μ		כ	R	Ш		L					F		S	Ι	Α	Z	G	Ι	Α	_		Ε		R
		В		С			Α		R		Α	S	S	Ε	Т			F		Ε		R		Ν		D	Ε	В	Α	Т	Ε
Q	U	Ε	S	Т	_	0	Ν	Ε	D		С		Ε		Н			Ε		Т	Ε	R	R	0	R		S	0	L	-	D
U					Μ			В	Ε	R	Υ	L		D	Ε	Т	Ε	С	Т	S		Ε		N		Α		U		R	
Ε	Ν	C	R	Υ	Р	Т	-	0	Z				D					Т	-	Ε		Α				В	1	Т	Т	Ε	R
S					R			Ν			F	L	ı	N	G		Α		Μ		Р	R	Ε	M	ı	S	Ε		0		
Т	Α	G	Α	L	0	G		Υ	0	G	Α		L		0		N		Ε	Ε	L	S				U					S
Ι			D		٧				F	Α	L	S	Ε		Α	N	Α	L	0	G	Υ		Ε		Р	R	Ε	٧	Α	-	L
0				G	Ε	N	U	S			L		M		L		L		U				Q			D			U		1
N	Α	D	ı	R		0			Р	S	Α	L	M		Р		0		Т	U		Q	U	0	Q	U	Ε		Т		Р
			G	Α	U	Ν	Т	Ε	R		С		Α	G	0		G	U	S	Т			I			M		С	Н	0	Р
R	U	ı	Ν	S					0	N	Υ	Χ			S	Α	Υ	S		Α	В	0	٧	Ε			Т		0		Ε
Е			0	Р	U	S		F	0	Ε					T			U		Н			0				Α		R		R
Р	0	0	R			Ε		U	F	0		Р	Ε	R	S	0	N	Α	L		1	N	С	R	Ε	D	U	L	I	Т	Υ
Α		В	Α	R	0	Q	U	Ε		N	Α	Υ		Α		٧		L		S			Α				T		T		
I	R	0	Ν			U		L				R		Т	R	U	E			K			Т		Ε	Р	0	Χ	Υ		S
R	Н	Ε	Т	0	R	Ι	С			S	Р	Ε	С	Ι	Α	L		Р	L	Ε	Α	D	Ι	N	G		L				L
	Υ		ı			Т	Α	С	Т		U		Н	0	Ν	Ε		L		Р			0		0		0				0
	Т		Α		R	Ε	D		Н	E	R	R	ı	N	G		F	Α	С	Т	I	0	Ν		I		G	R	0	U	Р
С	Н	Α	M	В	Ε	R			Α		Ε		Ν	Α				ı		ı					S		Υ				Ε
	M				Χ				W			F	Α	L	S	Ε		D	I	С	Н	0	Т	0	M	Υ					