

In-Video Quiz Questions for

Unit 6: Part 2 – (6) Regression with Categorical Explanatory Variables

(05:40) – slide 6, after “So we can say that the model predicts that the poverty rate for western states is 11.29% on average.”

1. Which region (northeast, midwest, west, or south) is predicted to have the lowest poverty percentage?

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	9.50	0.87	10.94	0.00
region4:midwest	0.03	1.15	0.02	0.98
region4:west	1.79	1.13	1.59	0.12
region4:south	4.16	1.07	3.87	0.00

- (a) northeast
- (b) midwest
- (c) west
- (d) south
- (e) cannot tell

Answers:

1. a

Explanation: Plugging in 0 for all levels will yield the lowest predicted poverty percentage, and that corresponds to the reference level: northeast.