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## Review Exercise 60

(a) It is an experiment. The teachers controlled the explanatory variable (teaching method).
(b) The explanatory variable is the teaching method. Another possible explanatory variable is the teacher himself.
(c) Yes, the teacher himself. Any differences in outcome could be a result of the teacher, not the teaching method.
(d) Apparently not. The teachers simply choose which students they would teach. There was no mention of randomizatin.
(e)
$H_{0}$ : The average test scores of the two classes are the same.
$H_{0}$ : The average test scores of the two classes are not the same.
(f) It must be greater than 0.10.
(g) Possibly. If the $p$-value was between 0.10 and 0.15 , then the results would be significant at the $15 \%$ level. On the other hand, if the $p$-value was greater than 0.15 , then they would not be significant even at the $15 \%$ level.

