Confidence intervals for a population proportion

Name: _____ Date: _____

6 questions | 12 marks

1. Find a 95% interval for 160 successes from 400 independent randomly sampled people. [2 marks]

2. Find a 95% interval for 225 successes from 500 independent observations. [2 marks]

3. An interval is 0.47 ± 0.035. Give endpoints and margin in percentage points. [2 marks]

4. Why is the formula unsuitable for zero successes among 30? [2 marks]

5. A random sample of app users is used to infer a proportion for all adults. What can its margin omit? [2 marks]

6. Does a proportion interval $(0.51, 0.59)$ contain the binary outcomes of 95% of people? [2 marks]