



Problem of the Week

Problem A

Old Faithful

Old Faithful is a geyser in Yellowstone National Park. It is so named because it was believed that it erupted every 60 to 90 minutes all day long. Assuming that Old Faithful erupts at 12 midnight and then erupts every 60 to 90 minutes after the last eruption, answer the following questions.

- (a) After the first eruption at 12 midnight, what is the minimum number of eruptions you could see until up to and including 12 midnight the next night?
- (b) After the first eruption at 12 midnight, what is the maximum number of eruptions you could see until up to and including 12 midnight the next night?

