

## Introduction to Statistics

### Activity 3.3e

NAME:

### Incubation Durations

Suppose the incubation times (time from exposure to symptoms) for a certain virus follow a **mound-shaped** distribution with a **mean** of **8.0 days** and a **standard deviation** of **1.5 days**.

- a) Approximately what percentage of incubation times are between **6.5 days** and **9.5 days**?
  
- b) Between what two values will the incubation times of **95%** of all infected people fall?

Suppose also that the incubation times for a different virus follow a **mound-shaped** distribution with a **mean** of **12.0 days** and a **standard deviation** of **0.8 days**.

- c) Is Virus A (mean 8.0, SD 1.5) or Virus B (mean 12.0, SD 0.8) more likely to have an incubation time that lasts within  $\pm 1$  day of its mean? Explain briefly.