Instructions for all assignments:

- Submit assignments in Canvas.
- Show work. Providing final answers is NOT enough.
- For challenging problems, get help (e.g., visit my office hours) if needed.

MATH 3305 (FALL 25) HOMEWORK #1

INSTRUCTOR: ZHAO DUE: Sat. 8/30 (Assigned 8/26)

1. The GPAs of a sample of 5 students enrolled in Math 3305 are obtained:

$${3.2, 2.3, 3.4, 4.0, 3.0}.$$

Find the values of the following statistics. Use the correct symbol for each.

- (a) Sample mean.
- (b) Sample median.
- (c) Sample standard deviation.
- 2. Page 6, Exercise 1.1.4 (page 46 of library e-book).

In the diagram below, \cdots

3. Page 7, Exercise 1.1.10 (page 47 of library e-book).

An assembly line is observed until \cdots

- 4. A candy bar with a 25-gram label weight is selected at random from a production line and weighted. Assuming that a candy bar cannot exceed 25 grams in weight, specify the sample space.
- 5. Determine whether each sample space in Problems 2-4 above is a countable sample space.