

Name \_\_\_\_\_

## Finite Mathematics (Math 10120), Fall 2020

### Quiz 4 Friday, October 9, 2020

1. The 20 members of the Pet Club are asked how many pets they have, and give the following information:

5, 8, 7, 4, 4, 6, 4, 7, 4, 6, 5, 4, 6, 4, 6, 4, 4, 5, 6, 5.

Complete the frequency and relative frequency distributions below (make sure the frequencies add up to 20!), and then compute the mean.

# pets	Frequency	Relative Frequency
4		
5		
6		
7		
8		

**mean**  $\mu =$

2. The following frequency distribution has a mean  $\mu = 65$ . Find the **population** variance and standard deviation of this data. We want you to show your work, so punching these numbers into a calculator that produces this information won't get credit.

Score	Frequency
$x_i$	$f_i$
80	2
70	2
60	5
50	1

**variance**  $\sigma^2 =$

**standard dev**  $\sigma =$