

1.1.1 Data description and Probability distribution.

Goals: ① Create frequency distributions from data.

② Create histograms and frequency polygons.

E.g. Random sample of employees from a company on their commute times from home to work.

0.3	0.7	0.2 . . .
0.6	0.2	1.1 . . .
1.2	0.9	0.8 . . .
0.5	1.3	0.7 . . .



Use intervals of equal width starting with
0.2 - 0.4 inclusive.

Interval	Frequency	Relative frequency	Cummulative frequency	Rel C.F.
0.2 - 0.4	7	$7/32$	7	$7/32$
0.5 - 0.7	10	$10/32$	17	$17/32$
0.8 - 1.0	6	$6/32$	23	$23/32$
1.1 - 1.3	9	$9/32$	32	$32/32$
	32			

Probability that a randomly selected person takes an hour or less to go to work : $23/32$

Histogram

