Name: Date:

MBF3C – Statistics - Day 3 Handout (Graphing)

1. Collecting and Graphing Categorical Data

What colour are your eyes:

Eye Colour	Blue	Green	Brown	Hazel
Frequency	3	5	3	2

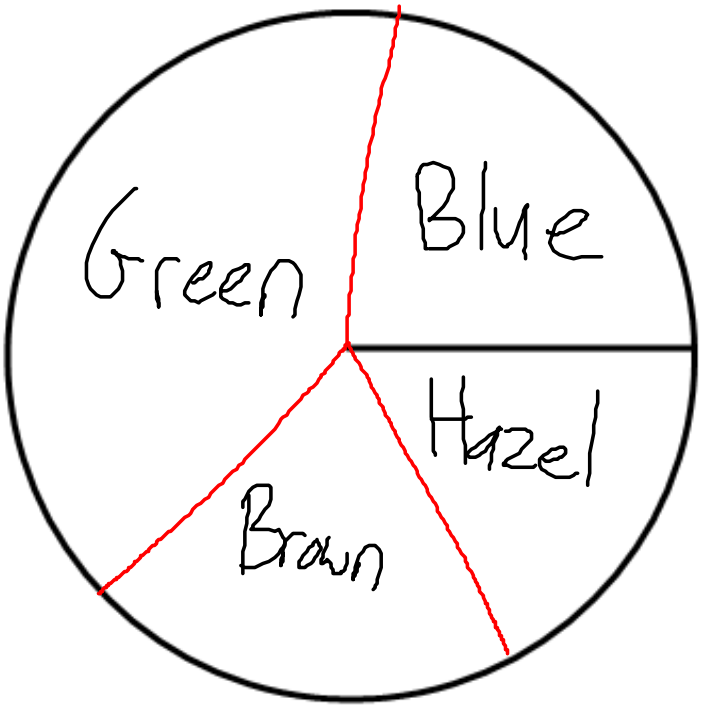
Calculate Proportions Below

Blue Eyes: 3 / 13 × 360° = 83°

Green Eyes: 5 / 13 × 360° = 138°

Brown Eyes: 3 / 13 × 360° = 83°

Hazel Eyes: 2 / 13 × 360° = 55°



Name: Date:

2. Collecting and Graphing Continuous Data

~~How tall are you?~~ (in cm) How long is your hand?

17.9	17.9	16.3	18.5	16.0
16.1	17.1	18.5	19.3	19.3
17.0	16.9	20.5		

Determine number of intervals and interval length of histogram below.
Fill in the Frequency Distribution table. (See Day 1 Lesson)

range = max − min
= 20.5 − 16.0
= 4.5

5 bars: $\frac{4.5}{5} = 0.9$

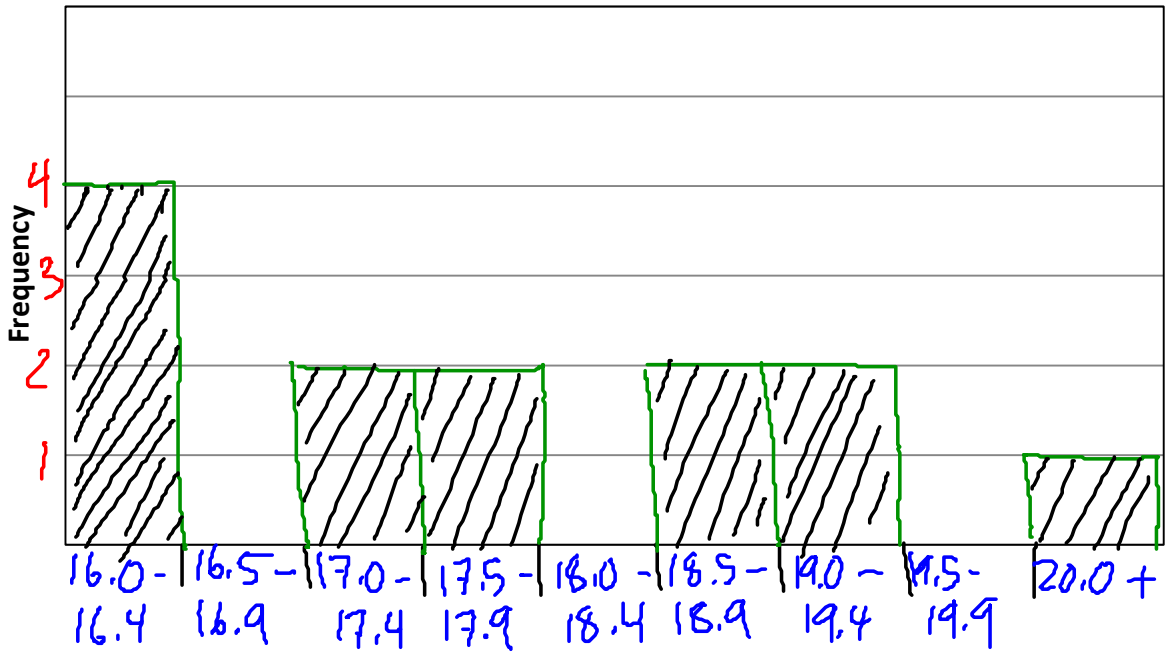
20 bars: $\frac{4.5}{20} = 0.225$

Use intervals of 0.5

Frequency Distribution Table (*This table is rotated differently than last time to save space***)**

Height (x)	16.0 – 16.4	16.5 – 16.9	17.0 – 17.4	17.5 – 17.9	18.0 – 18.4	18.5 – 18.9	19.0 – 19.4	19.5 – 19.9	20.0 +
Frequency (f)	4	0	2	2	0	2	2	0	1
Cumulative Frequency	4	4	6	8	8	10	12	12	13

13 total #



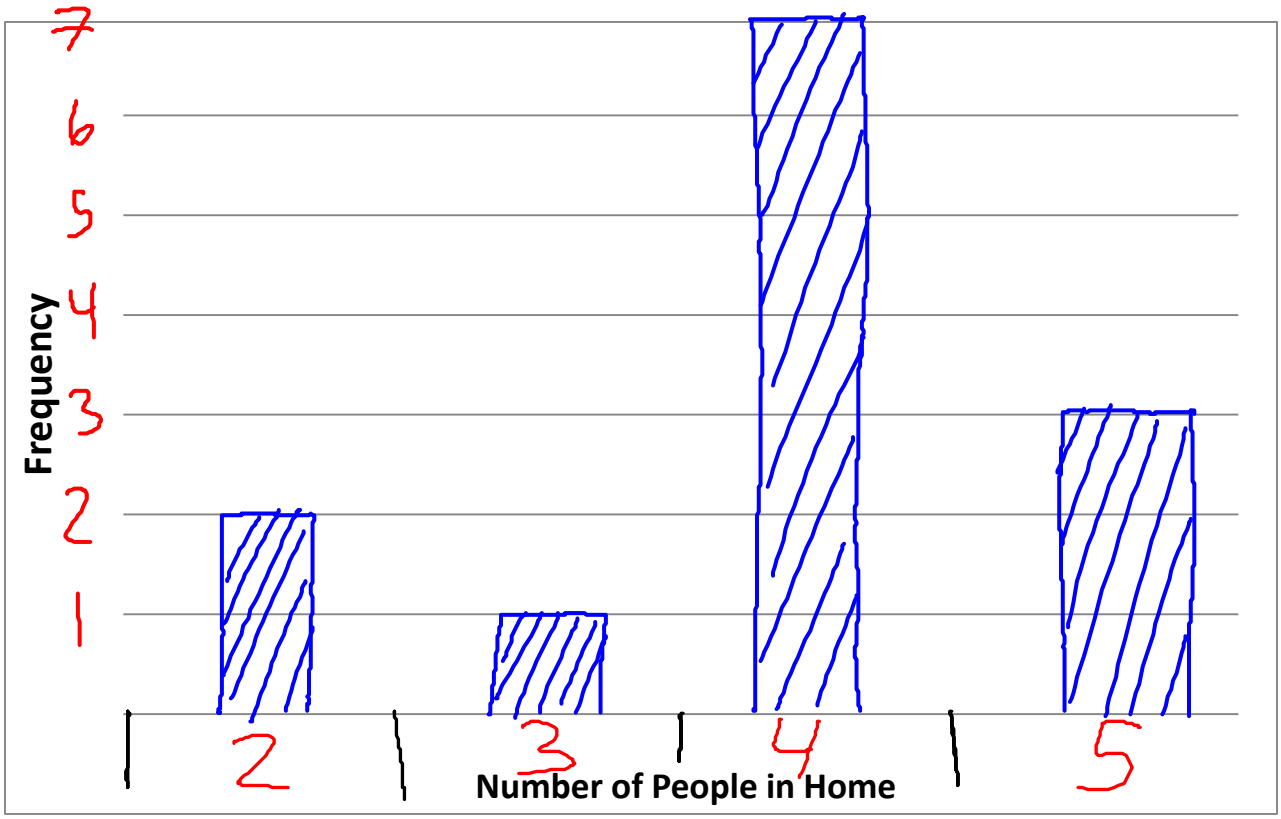
Name: Date:

3. Collecting and Graphing Discrete Data

How many people live in your home?

3	2	5	4	4
5	4	5	4	4
4	4	2		

people | freq
2 - 2
3 - 1
4 - 7
5 - 3
} 13 ✓



* bars not touching