

AP Psychology
Statistics Worksheet

1. The four houses of Hogwarts recently took an AP Psychology exam. Use these data to determine important statistics to the nearest hundredth.

Ravenclaw	Hufflepuff	Slytherin	Gryffindor
52	44	44	42
50	42	38	48
50	54	46	42
56	28	38	38
40	50	44	40
46	42	52	46
36	42	32	46
54	34	48	34
46	32	44	48
50	50	30	44
40	32	30	46
36	56	58	50
42	40	54	40
56	50	46	48
50	54	40	46
38	32	36	22
52	38	42	58
52	44	40	48
46	36	44	42
44	34	44	56
44	56		54
42	46		46
42	42		48
46			46

a. Measures of Central Tendency

i. Mean

1. Ravenclaw

2. Hufflepuff

3. Slytherin

4. Gryffindor

ii. Median

1. Ravenclaw

2. Hufflepuff

3. Slytherin

4. Gryffindor

iii. Mode

1. Ravenclaw

2. Hufflepuff

3. Slytherin

4. Gryffindor

b. Measures of Variability

i. Range

1. Ravenclaw

2. Hufflepuff

3. Slytherin

4. Gryffindor

ii. Standard Deviation

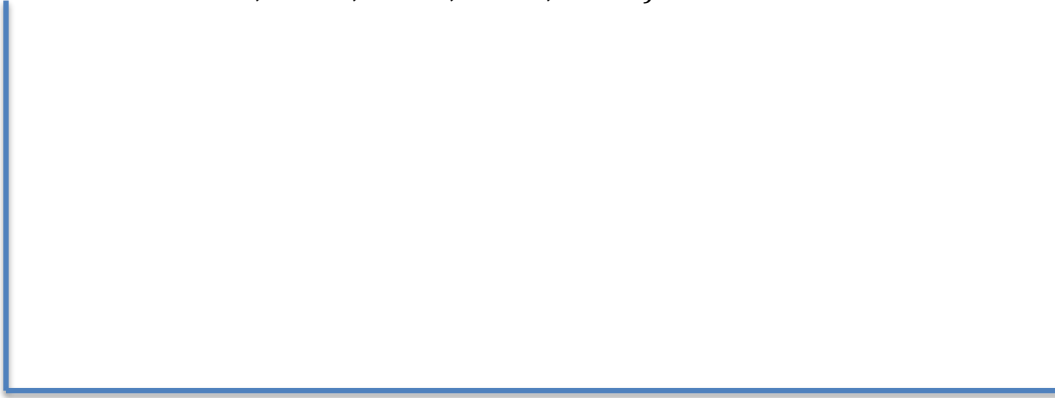
1. Ravenclaw

2. Hufflepuff

3. Slytherin

4. Gryffindor

- c. Pick a House and make a histogram with the following categories (0-30; 31-35; 36-40; 41-45; 46-50; 51-55; 56-60). Be sure to label the axes



2. Is the distribution skewed or normal? What does that mean? Is it a “good” skew?

3. Based on the data from the Houses of Hogwarts, list four potential research studies where test scores could be a dependent variable.

4. Based on these data, write a brief paragraph on which House would you prefer to be in and why (again, using data)?