

# Elementary Statistics

## Study Guide 8

Due Date: 3/28/2020

Name: Alexi Robles

Class: Math 227: Statistics

Score: \_\_\_\_\_

No Work  $\Leftrightarrow$  No Points

Use Pencil Only  $\Leftrightarrow$  Be Neat & Organized

1. Thirty-six workers were randomly surveyed about how long it takes them to travel to work each day. The data below are given in minutes:

20	45	42	52	65	20	60	49	24	37	23	24	50	59	62	45	52	61
41	25	28	27	50	47	58	40	42	48	40	45	39	55	50	55	48	60

- (a) (1 point) Find  $\bar{x}$ . Round your answer to one decimal place.

$$\bar{x} = \frac{\sum x}{n} = \frac{1588}{36} = 44.1$$

(a) 44.1

- (b) (1 point) Find  $s$ . Round your answer to one decimal place.

$$s = \sqrt{\frac{1}{35} \sum_{i=1}^{36} (x_i - \bar{x})^2} = \sqrt{\frac{1}{35} \sum_{i=1}^{36} (x_i - 44.1)^2} = 13.0449$$

$s = 13.0$

(b)  $s \approx 13.0$

- (c) (2 points) Find the exact value for  $s^2$ . Reduced fraction answer only.

$$s^2 = 170.1$$

- (d) (1 point) Find the mode.

maximum x no. occurs.

$$\text{mode} = 45 \text{ \& } 50$$

(d) 45 & 50

- (e) (3 points) Find the range and the midrange.

$$\text{Range} = \text{maximum} - \text{minimum}$$

$$\text{maximum} = 65$$

$$\text{minimum} = 20$$

$$\text{range} = 65 - 20 = 45$$

Range 45

(e) midrange = 22.5

- (f) (1 point) Estimate the standard deviation by using the range rule of thumb.

$$\frac{20 - 65}{4}$$

(f) 11.25

# Elementary Statistics Study Guide

**E. F. Lindquist, George Dinsmore  
Stoddard**



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