## Striving to provide

a premsen online education experience ${ }^{\text {TM }}$

Note: You will only be allowed to submit this test one time. Your score will be averaged in your overall course grade and you will not be able to submit this test again.

MA170G. 08
Find the standard deviation.
$5,4,7,6,19,6,8,8,6$

- 1.0
( 4.2
) 4.4
4.8

2 of 25
Find the standard deviation for the given data.
The manager of a small dry cleaner employs six people. As part of their personnel file, she asked each one to record to the nearest one-tenth of a mile the distance they travel one way from home to work.

The six distances are listed below:

### 17.911 .228 .239 .422 .418 .2

Round results to two decimal places.
O 3141.88
9.84

- 33.80
- 3626.45

3 of 25
In a certain distribution, the mean is 50 with a standard deviation of 6 . Use Chebyshev's theorem to tell the probability that a number lies in the following interval. Round your results to the nearest whole percent.

Less than 20 or more than 80
At most 4\%
At most 2\%
At most 6\%
At most $1 \%$

4 of 25

Find the standard deviation for the given data.
The manager of an electrical supply store measured the diameters of the rolls of wire in the inventory. The diameters of the rolls (in m ) are listed below. Round results to four decimal places.

```
0.202
0.365
< }1.291
0.1523
%}1.431
5 of 25
Find the median.
```

$3,3,27,23,39,49$
) 25

- 24.5
- 23
- 27

6 of 25
Find the mode or modes.
$7.03,7.41,7.56,7.03,7.88,7.99,7.62$
7.56

- 7.503
7.41
7.03

7 of 25
Find the median.

```
11,14,30,48,60,75,89
}}3
60
O}4
< 47
```

8 of 25
Find the range for the set of data numbers.
$62,147,35,93,195$

- 160

195
85
35

## 9 of 25

In a certain distribution, the mean is 50 with a standard deviation of 6 . Use Chebyshev's theorem to tell the probability that a number lies in the following interval. Round your results to the nearest whole percent.

## Between 35 and 65

At least $89 \%$
At least $80 \%$
At least $84 \%$
At least $86 \%$
10 of 25
Find the standard deviation.
$45,64,86,77,37,20,82,59,66$
O 21.9
7.4
23.5
20.7

11 of 25
Prepare a frequency distribution for the given data with columns for intervals and frequencies.
The following is the number of hours students worked per week at after-school jobs. Use five intervals, starting with 0-4.

1614182021151172613152216134101419

| interval Erequency |  |
| :---: | :---: |
| $0-4$ | 3 |
| $5-9$ | 2 |
| $10-14$ | 7 |
| $15-19$ | 5 |
| $20-24$ | 3 |

$\frac{\text { Intervalltrequency }}{0-4}$
5-9 3

10-14 6
15-19

| materval\|Frequancy |
| :---: |
| $0-4$ |

5-9 $\quad 3$
$10-14 \quad 5$
15-19 $\quad 6$
20-24 3

| motrafreguence |  |
| :---: | :---: |
| $0-4$ | 3 |
| $5-9$ | 3 |
| $10-14$ | 6 |
| $15-19$ | 5 |
| $20-24$ | 3 |

12 of 25
Find the mean.
Six college buddies bought each other Christmas gifts. They spent $\$ 156.57, \$ 192.41, \$ 171.85$, $\$ 121.35, \$ 289.51$, and $\$ 249.78$. Find the mean amount spent for Christmas gifts.
© $\$ 224.29$
) \$196.91
\$236.29
\$295.37
13 of 25
Using the information in the table on home sale prices in the city of Summerhill for the month of June, find the mean for the grouped data.

| Sale Proe <br> (housands of tollars) | Frequency |
| :---: | :---: |
| 800-10.9 | 2 |
| 1119-141.9 | 5 |
| $1420-172.9$ | 7 |
| 1730-203.9 | 10 |
| 20.0-234.9 | 3 |
| 235.0-265.9 | 1 |
| ) 172.95 |  |
| 168.52 |  |
| ) 157.50 |  |
| ) 188.45 |  |

14 of 25
Find the mean for the frequency distribution. Round to the nearest tenth.

| Vatuefrequency |  |
| :---: | ---: |
| 14 | 4 |
| 21 | 17 |
| 25 | 9 |
| 29 | 18 |
| 35 | 8 |
| 2.2 |  |
| 26.7 |  |
| 28.3 |  |
| 25.7 |  |

15 of 25

A medical research team studied the ages of patients who had strokes caused by stress. The ages of 34 patients who suffered stress strokes were as follows. Use 8 intervals starting with 25-29.

293036414550576128503658
603836474032584661405532
61564546623638405027

| merval | Erequency |
| :---: | :---: |
| $25-30$ | 4 |
| $31-36$ | 6 |
| $37-42$ | 6 |
| $43-48$ | 5 |
| $49-54$ | 3 |
| $55-60$ | 5 |
| $61-66$ | 5 |
| $67-72$ | 0 |


| merval | Frequency |
| :---: | :---: |
| $25-29$ | 3 |

$30-343$
35-39 $\quad$ 最

$45-49 \quad 5$
$50-54 \quad 3$
$55-54 \quad 5$
$64-645$

| merval | Freguency |
| :---: | :---: |
| $25-30$ | 4 |

$31-36 \quad 6$
$37-46$
$4-45 \quad 5$
$46-55 \quad 5$
56-58 $\quad 4$
$59-62 \quad 4$
$63-72$ - 0

| Luterva | requency |
| :---: | :---: |
| $25-30$ | 4 |
| $31-36$ | 6 |
| $37-40$ | 5 |
| $41-45$ | 5 |
| $46-55$ | 5 |
| $56-58$ | 4 |
| $59-62$ | 4 |
| $63-64$ | 0 |

## 16 of 25

Find the standard deviation of the data summarized in the given frequency table.
The manager of a bank recorded the amount of time each customer spent waiting in line during peak business hours one Monday. The frequency table below summarizes the results. Find the standard deviation. Round your answer to one decimal place.

| Whathenme | Number of |
| ---: | ---: |
| （mmutes） | customer |
| $0-3$ | 8 |
| $4-7$ | 3 |
| $8-11$ | 12 |
| $12-15$ | 14 |
| $16-19$ | 0 |
| $20-23$ | 3 |

－ 5.5
5.3
5.0
5.4

17 of 25
Find the range for the set of data numbers．
$28,40,20,50,52$
） 20
－ 12
） 52
32

18 of 25
Choose the one alternative that best completes the statement or answers the question．
Construct a stem－and－leaf display for the given data table．

```
5672484268
3722496361
3832486687
4474585451
    3172年2
    48298
    516441
    6436
    729娄6
    8!17
    3/72820
    4.82984
    546.541
    6836
    7290
8117
    3音282
    4.2984
    6841
    82%6
    729
    8117
```

```
17282
    2152984
3/64毫1
4836
5129
61772
```

19 of 25
Find the mean.
The Wellspring Company's fleet of trucks get $18,12,19,8,20,12$, and 22 miles per gallon. Round to the nearest whole number.
16 miles per gallon
19 miles per gallon
14 miles per gallon17 miles per gallon
20 of 25
Choose the correctly constructed frequency polygon.
Number of
Wam seares/Students

| $50-59$ | 2 |
| :--- | :--- |
| $60-69$ | 8 |

$70-79$ 3
$80-89 \quad 40$
$90-9910$



21 of 25
Construct a stem-and-leaf display for the given data table.
113265166320
412134294911
55432365713

$$
\begin{gathered}
111433 \\
2019 \\
3466 \\
4194 \\
5197 \\
61538 \\
11613 \\
21919 \\
3246 \\
4194 \\
51527 \\
643 \\
11613 \\
21919 \\
32413 \\
4194 \\
55271 \\
6153 \\
111613 \\
2 / 919 \\
312463 \\
4194 \\
51527 \\
6432
\end{gathered}
$$

22 of 25
Find the mean for the list of numbers. Round to the nearest tenth.
$8.9,7.3,7.7,8.8,5.4,11.7,5.2,10.5,12.4,8.4$
9.6

- 9.1
8.6
8.2

23 of 25
Find the mode or modes.

```
91,25, 91, 13, 25, 29, 56,91
)}42.
C}2
01
< 52.6
```

24 of 25
Find the mean for the frequency distribution. Round to the nearest tenth.

| ratuelrequency |
| :--- |
| 130 |
| 105 |
| 265 |
| 305 |
| 37 |

## 25 of 25

Find the mean for the list of numbers. Round to the nearest tenth.
$18,12,8,11,4,2,4$
7.9
8.4
9.8
9.9

## Submit

