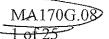
a premier online education experience TM

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.



Find the standard deviation.

5, 4, 7, 6, 19, 6, 8, 8, 6

- \bigcirc 1.0
- 4.2
- \bigcirc 4.4
- \bigcirc 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:

17.9 11.2 28.2 39.4 22.4 18.2

Round results to two decimal places.

- \bigcirc 3141.88
- \bigcirc 9.84
- \bigcirc 33.80
- \bigcirc 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%
 - O At most 2%
 - At most 6%
 - O 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.

○ 0.365 ○ 1.2917 ○ 0.1523 ○ 1.4310	349 0.303	0.009	0.427	0.369
5 of 25 Find the median.				
3, 3, 27, 23, 39, 49 ○ 25 ○ 24.5 ○ 23 ○ 27				
6 of 25 Find the mode or n	nodes.			
7.03, 7.41, 7.56, 7. ○ 7.56 ○ 7.503 ○ 7.41 ○ 7.03	03, 7.88, 7.99), 7.62		
7 of 25 Find the median.				
11, 14, 30, 48, 60, 7 ○ 30 ○ 60 ○ 48 ○ 47	75, 89			
8 of 25 Find the range for the	he set of data	number	S.	
62, 147, 35, 93, 195 ○ 160 ○ 195 ○ 85	;			

O 35

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.

- \bigcirc 21.9
- **7.4**
- \bigcirc 23.5
- \bigcirc 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.

1 6 14 18 20 21 15 11 7 2 6 13 15 22 16 13 4 10 14 19

	Interval	Frequency
	0 - 4	3
	5 - 9	2
	10 - 14	7
	15 - 19	5
)	20 - 24	3
	* * !	144.

rrequency
3
3
6
4
4

Interval	Frequency
0 - 4	Ĵ
5 - 9	3
10 - 14	5
15 - 19	6
20 - 24	3

 \bigcirc

Interval	Frequency
0 - 4	3
5-9	52
10 - 14	6
15 - 19	5
O 20 - 24	3

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 Price	
(thousands of dollars)	Frequency
80.0-110.9	2
111.0 - 141.9	5
142.0 - 172.9	7
173.0 - 203.9	10
204.0 - 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.

Value	Frequency
14	4
21	17
25	9
29	18
35	8
\bigcirc 2.2	2

- \bigcirc 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.

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.

Waiting time	Number of
(minutes)	customer
0 - 3	8
4 - 7	13
8 - 11	12
12- 15	14
16-19	0
20 - 23	3
O 5 5	

- O 5.5
- **5.3**
- 5.0
- O 5.4

17 of 25

Find the range for the set of data numbers.

28, 40, 20, 50, 52

- **20**
- 12 .
- O 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.

56 72 48 42 68

37 32 49 63 81

38 32 48 66 87

44 79 58 54 51

3 7 2 8 2

48298

5 6 8 4 1

6 8 3 6

7 2946

0 8 17

3 7 2 8 2 0

482984

5 6841

6 8 3 6

7 290

0 8 17

3 7 2 8 2

4 8 2 9 8 4

5 6841

6 8 3 6

7 2 9

0 8 1 7

	1	7282
	2	82984
	2 3	6841
	4	836
	5	29
- -,	6	7282 82984 6841 836 29

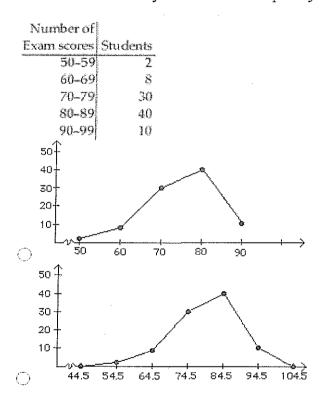
19 of 25

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 gallon
- 17 miles per gallon

20 of 25 Choose the correctly constructed frequency polygon.



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

11 32 65 16 63 20 41 21 34 29 49 11 55 44 52 36 57 13

```
1 1413
   2019
   3 466
   4 194
   5 5 9 7
O 6 538
   111613
   2019
   3 246
   4 194
   5 5 2 7
O 6 5 3
   1 1 6 1 3
   2019
   3 2 4 1 3
   4 194
   5 5 2 7 1
0 6 53
   111613
   2019
   3 2 4 6 5
   4 194
   5 527
O 6 532
```

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

○ 42.5

○ 25

○ 91

○ 52.6
```

24 of 25

Find the mean for the frequency distribution. Round to the nearest tenth.

Válue Fr	equency
139	1
195	4
265	4
3(15	6
337	2

- 304.7
- O 263.7
- 298.9
- 73.0

Find the mean for the list of numbers. Round to the nearest tenth.

18, 12, 8, 11, 4, 2, 4

- 7.9
- 8.4
- O 9.8
- \bigcirc 9.9

Submit