

MMMR from Charts and Graphs Experienced

#1-3 The table below shows the elevation, in feet, of several California locales.

Locale	Elevation (in feet)	Locale	Elevation (in feet)
Malibu	10	Santa Barbara	33
Santa Cruz	20	Mecca	-180
Death Valley	-282	Venice Beach	20
Ventura	100	Santa Clarita	1200
Pacific Grove	55	Beverly Hills	225

1) What is the mean elevation of the California locales featured in the table?

2) What is the median elevation of the towns featured in the graph?

3) What is the range of elevation in the locales featured in the table?

#4-6 The table below gives information about the Yavapai County Swim team.

Yavapai County Swim Team

	Youth Division		
	Children 5 to 8	Junior 9 to 12	Teen 13 to 18
Registration Fee	\$45	\$55	\$75
Number of Swimmers	17	15	28
Meets Per Season	4	6	12
Meet Entry Fee*	\$15	\$15	\$20

*Due by day of meet

4) What is the range of ages on the swim team?

5) Considering the current number of swimmers, what is the average registration fee per swimmer?

6) What is the mode age range of students in the Yavapai County Youth Division?

#7-9 The table below shows the number of GED subject tests passed by a group of GED prep students mid-semester.

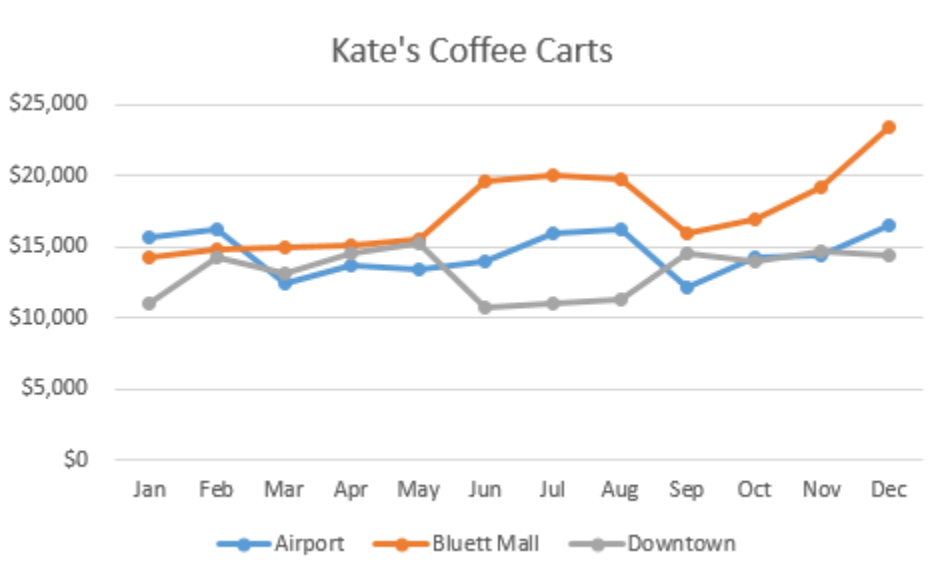
Number of Tests Passed	Females	Males
0	9	11
1	5	6
2	3	2
3	9	7

7) On average, how many tests have the females in the class passed to the nearest tenth?

8) What is the median number of tests passed by the males?

9) What is the mode number of tests passed by the males?

#10-12 The line graph tracks the attendance of GED students in three classes in the spring of 2018.



10) Which coffee cart location, on average, has the highest sales?

11) What were the approximate mean June sales per location?

- a) \$10,600
- b) \$14,600
- c) \$18,200
- d) \$44,000

12) Based on the graph, what is the most likely median monthly sales for the Bluett Mall location?

- a) \$14,500
- b) \$15,500
- c) \$16,500
- d) \$18,500

#13-15 The table below gives important information about the eight planets in our solar system.

Planet	Average Distance from Sun (in km)	Length of a Day (in hours)	Mass (in kg)	Diameter (in km)
Earth	1.5×10^8	24.0	6.0×10^{24}	1.28×10^4
Saturn	1.4×10^9	10.7	5.7×10^{26}	1.21×10^5
Mercury	5.8×10^7	4222.6	3.3×10^{23}	4.88×10^3
Neptune	4.5×10^9	16.1	1.0×10^{26}	4.95×10^4
Mars	2.3×10^9	24.7	6.4×10^{23}	6.79×10^3
Jupiter	7.8×10^8	9.9	1.9×10^{27}	1.43×10^5
Uranus	2.9×10^9	17.2	8.7×10^{25}	5.11×10^4
Venus	1.1×10^8	2802.0	4.9×10^{24}	1.21×10^4
Source: NASA Planetary Fact Sheet ; Dr. David R. Williams, 10/2019				

13)What is the average length of a day for planets in our solar system?

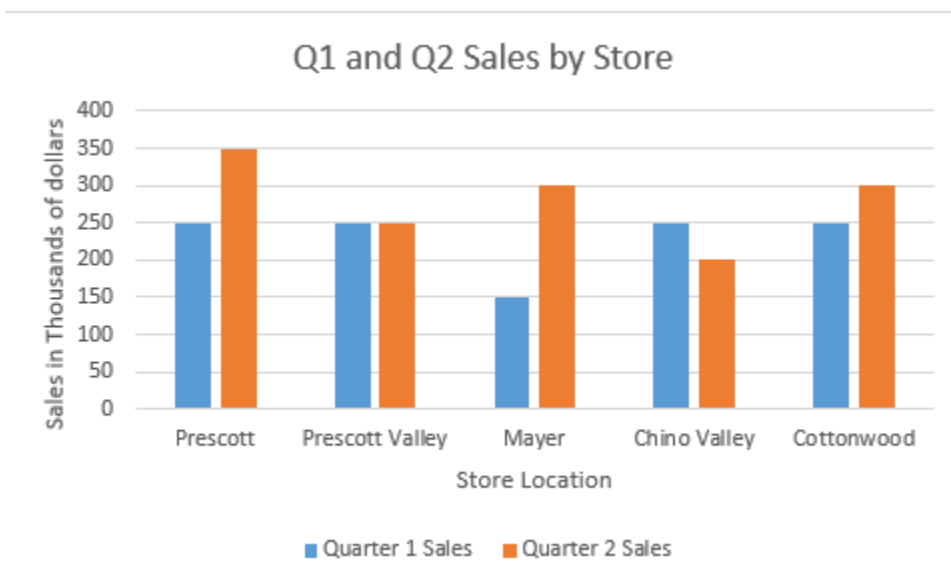
14)By how much does the mass of planets in our solar system range?

- a) 1.9×10^{27}
- b) 1.9×10^4
- c) 1.4×10^{27}
- d) 1.4×10^4

15)What is the median diameter of planets in our solar system?

- a) 25,600 km
- b) 31,150 km
- c) 256,000 km
- d) 311,500 km

#16-18 The bar graph compares approximate quarter 1 and quarter 2 sales of five convenience store locations.



16)What was the mode of quarter one sales?

17)One average, the Cottonwood store sold how much per quarter?

18)What was the mean sales per store in Quarter 1?

#19-21 The stem and leaf plot below shows the ages of students in a GED program.

GED Students by Age

<u>Males</u>				<u>Females</u>
9 9 8 8 8 7 7 7 6 6 6 6 6	1		6 6 7 7 7 7 8 8 9 9 9	
7 7 6 1	2		0 0 1 2 2 4 5 5 7	
9 7 3 0	3		0 4 4	
7 5 2	4		2 9	
5	5		6	

19)What is the range of the program's ages?

20)What is the mode age of the males in the program?

21)What is the mode age of the females in the class?

#22-25 The table below summarizes the progress test scores of some GED students.

Student #	Age	Last Grade Completed	Hours in Adult Ed	Reading Score	Math Score
1	25	11	23	9.6	4.5
2	16	10	42	10.0	7.7
3	59	8	32	9.2	5.2
4	17	10	50	7.7	3.7
5	21	10	48	12.9	6.8
6	22	6	51	5.2	3.3

22)On average, how many hours has each student spent in adult education?

23)What is the mean reading score, to the nearest tenth, of these students?

24)Only one of the categories above has a mode. Which category is it and what is the mode?

25)Which score, math or reading, has the largest range?

ANSWERS: 1) 120.1 feet 2) 26.5 feet 3) 1482 feet 4) 13 years 5) \$61.50 6) Teen (13 to 18) 7) 1.5 tests 8) 1 test 9) 0 tests 10) Bluett Mall 11) b 12) c 13) 890.9 hours 14) a 15) b 16) \$250,000 17) \$275,000 18) \$287,500 19) 40 years 20) 16 21) 17 22) 41 hours 23) 9.1 24) Last grade completed, 10 25) Reading