Instruction

Guided Practice 6.1.1

Example 1

A doctor's office records the number of unscheduled patients that arrive each hour the office is open. This information will help determine scheduling for the 3 doctors and 8 nurses that work there. The number of patients arriving each hour is listed in the following table. Use the table to create a histogram that will help the office staff understand how many unscheduled patients arrive at each time of day.

Time frame	Number of unscheduled patients		
8:00 a.m. – 9:00 a.m.	4		
9:00 A.M. – 10:00 A.M.	0		
10:00 A.M. – 11:00 A.M.	0		
11:00 а.м. – 12:00 р.м.	1		
12:00 р.м. – 1:00 р.м.	3		
1:00 р.м. – 2:00 р.м.	2		
2:00 р.м. – 3:00 р.м.	1		
3:00 р.м. - 4:00 р.м.	5		
4:00 p.m. – 5:00 p.m.	5		
5:00 р.м. – 6:00 р.м.	8		

1. Draw a number line on an *x*-axis that corresponds to the range of the data.

The *x*-axis for this data will show the times the unscheduled patients were counted. The number line for the office must include the times from 8:00 A.M. until 6:00 P.M.

а.м. 10 а.м. 12 р.м. 2 р.м. 4 р.м. 6 р.м.





Instruction

Example 2

Veronica and Eli are reading a book for literature class. They have noticed the author uses the word "bombastic" rather more than they would expect. Create a dot plot to display the number of times the word is used per page.

Page	Uses of "bombastic"	Page	Uses of "bombastic"
1	0	11	3
2	4	12	5
3	1	13	3
4	0	14	8
5	10	15	1
6	2	16	1
7	0	17	9
8	0	18	0
9	0	19	0
10	4	20	1

Page	Uses of "bombastic"	Page	Uses of "bombastic"
1	0	20	1
4	0	6	2
7	0	11	3
8	0	13	3
9	0	2	4
18	0	10	4
19	0	12	5
3	1	14	8
15	1	17	9
16	1	5	10



Instruction

Example 3

Shiloh is analyzing her favorite songs. The length of each of her top 25 favorite songs is recorded in the following table. Draw a box plot to represent the data.

Song	Length (seconds)	Song	Length (seconds)	Song	Length (seconds)
А	150	J	289	R	602
В	230	Κ	225	S	380
С	301	L	230	Т	422
D	161	М	300	U	154
Е	270	Ν	294	V	903
F	266	0	305	W	1,226
G	177	Р	281	Х	272
Н	330	Q	145	Y	224
Ι	392				

1. Order the data from least to greatest. Note the minimum and maximum data values.

Song	Length (seconds)	Song	Length (seconds)	Song	Length (seconds)
Q	145	F	266	0	305
А	150	Е	270	Н	330
U	154	Х	272	S	380
D	161	Р	281	Ι	392
G	177	J	289	Т	422
Y	224	Ν	294	R	602
K	225	М	300	V	903
В	230	С	301	W	1,226
L	230				

The minimum data value is 145, and the maximum data value is 1,226.





