

Lesson 10.2 Worksheet - ANSWERS

Display the data in a histogram.

1.

Chess Team	
Wins	Frequency
10-13	3
14-17	4
18-21	4
22-25	2



2.

Movies Watched	
Movies	Frequency
0-1	5
2-3	11
4-5	8
6-7	1



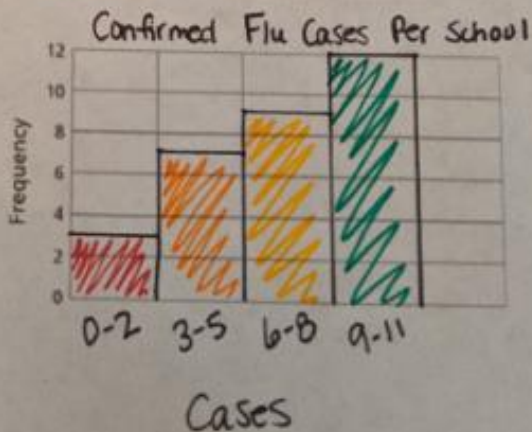
3.

ERROR ANALYSIS Describe and correct the error made in displaying the data in a histogram.

Confirmed Flu Cases per School	
Cases	Frequency
0-2	3
3-5	7
6-8	9
9-11	12

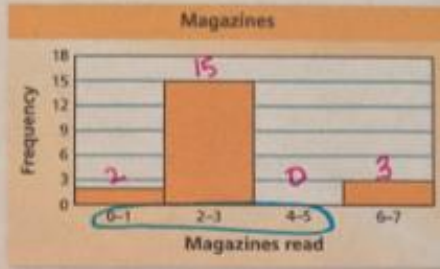


Mistake: There should not be a space between the bars! Also, there's no title!



4. **MAGAZINES** The histogram shows the number of magazines read last month by the students in a class.

- a. Which interval contains the fewest data values? **Interval 4-5**
- b. How many students are in the class? **20**
- c. What percent of the students read less than six magazines? **85%**
- d. Can you find the mean or the median of the data? Explain.



First 3 bars

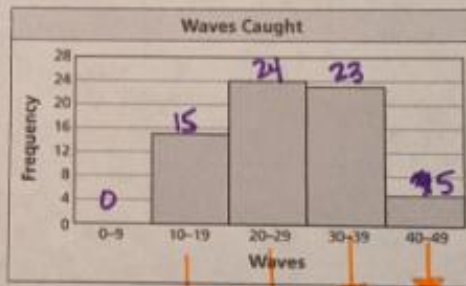
17 out of 20

OR
 $\frac{17}{20} = 0.85 = 85\%$

No bc you only know ~~the~~ what interval each of the data values falls into, not the specific data values.

5. The histogram shows the number of waves caught by surfers at a beach one day.

- a. Which interval contains the fewest data values? **Interval 0-9**
- b. How many surfers were at the beach? **67**
- c. What interval contains about 22% of the surfers?



10-19

$$\begin{array}{cccc}
 \frac{15}{67} & \frac{24}{67} & \frac{23}{67} & \frac{5}{67} \\
 \downarrow & \downarrow & \downarrow & \downarrow \\
 0.22... & 0.36 & 0.34 & 0.07 \\
 \downarrow & \downarrow & \downarrow & \downarrow \\
 22\% & 36\% & 34\% & 7\%
 \end{array}$$