**Financial & Workplace Mathematics – Bar/Histogram/Line/Circle Graphs Assignment**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Value 50** - Date: Feb 14, 2017 –**DUE: FEB 15/17**

1. **Fill in the blanks – Value 8**
2. Bar graphs are used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ data that have categories.
3. Histograms are a type of \_\_\_\_\_\_\_\_\_\_\_\_\_ graph which shows the number of times data appear within a certain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (such as the numbers of players between 12 and 16 in height).
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are bar graphs that uses vertical bars *without any gaps* between them.
5. Both of the following graphs can be difficult to read accurately because some bars do not end on a grid line. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ graphs
6. Pie or circle graphs represent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ data that can be used to compare amounts. It shows each amount as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the total.
7. **Short Answer – Value 12**

|  |  |  |
| --- | --- | --- |
| Number of  Hours Watched | Tally | Frequency |
| 0–5.5 | ll | 2 |
| 5.5–10.5 | lll | 3 |
| 10.5–15.5 | ~~llll~~ | 5 |
| 15.5–20.5 | ~~llll~~ lll | 8 |
| More than 20.5 | ~~llll~~ ~~llll~~ ll | 12 |

1. Tara’s class was surveyed about how many hours of television they watch. The results are shown.
2. Which type of graph would represent the data accurately? Why? **Value 2**

**ANS:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which interval has the largest frequency? **Value 1**

**ANS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Which interval has the smallest frequency? **Value 1**

**ANS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Ann surveyed 40 students on their favorite type of online game.

|  |  |
| --- | --- |
| Game Type | Number of Votes |
| Puzzle | 4 |
| Strategy | 3 |
| Racing | 15 |
| Action | 12 |
| Sports | 6 |

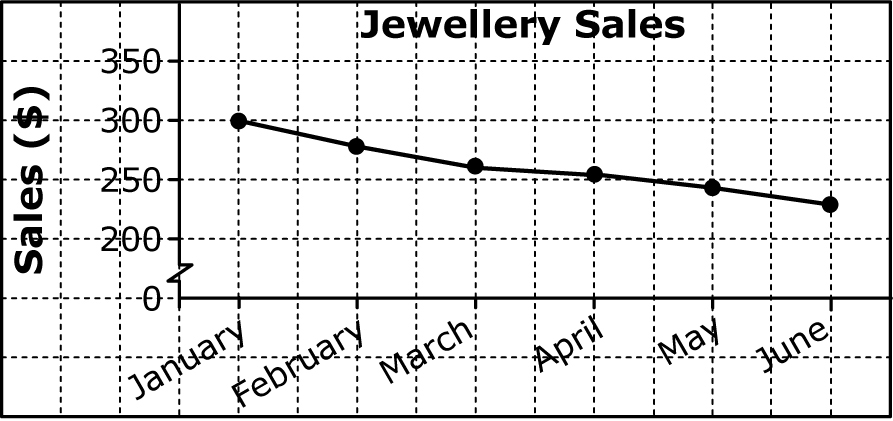
1. What type of graph would best show that a majority of the students like racing and action online games? And why? **Value 2**

**ANS:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Describe one advantage of the graph you choose for part a. **Value 2**

**ANS:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Kathleen sells jewelry to her family and friends. She tracks her monthly sales and displays them on a graph.

****

1. Kathleen say that her sales have declined (dropped) dramatically since January. Do you agree with her statement? Why or why not? **Value 2**

**ANS:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In which month did Kathleen have the least amount of sales? **Value 1**

**ANS:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In which month did Kathleen sell for $250 worth of jewelry? **Value 1**

**ANS:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Graphing – Value**
2. Go to page 164 in your textbook and complete question #4 (a, b, and c) below. **Value 15**
3. **Histogram – Value 13**



(b) **ANS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Value** 1

(c) **ANS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Value 1**

1. From the data provided complete a circle/pie graph below. **Value 15**

|  |  |  |
| --- | --- | --- |
| MONTH | SALES ($) | Percent (Indicate values to attain percentage) |
| January | 450 | / = x 100% = |
| February | 525 | / = x 100% = |
| March | 398 | / = x 100% = |
| April | 276 | / = x 100% = |
| May | 510 | / = x 100% = |
| June | 600 | / = x 100% = |
|  | TOTAL: \_\_\_\_\_\_\_ | TOTAL:\_\_\_\_\_\_\_ |

**Total Value 50**