**Topic 3 Quiz #1 Entry Task** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Choose the concept from the list that best represents the item in each box.

Interpolation correlation coefficient extrapolation residual

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | **2.**  Estimate the value for *y* when *x* = 3.5. | **3.** | 4.  Estimate the value for *y* when *x* = 1.5. |

|  |  |
| --- | --- |
| Select two points on the trend line. | (1, \_\_\_\_\_\_\_\_) and (6, \_\_\_\_\_\_\_\_) |
| Use them to find the slope. | *m* = \_\_\_\_\_\_\_\_ |
| Use the slope and the first point from above to write the equation of the trend line. | *Y=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |

**2.** View the scatter plot and the trend line. Fill in the blanks to determine the  
equation for the trend line.

Fill in the blanks to complete each statement about the linear regression. Round to the nearest tenth if necessary.

C:\Users\PRABHA\Desktop\tiff\TR\A1_T3\HSM18_ANCA1_CC_T03_L06_RE_5.TIF**3.** The parameters of the linear model found in the linear regression are the  
slope, \_\_\_\_\_\_\_\_\_, and the *y*-intercept, \_\_\_\_\_\_\_\_\_.  
The equation of the best fit line is *y* = \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**4.** Brian made statements about the line of best fit  
for the scatter plot data shown. Put an X next to  
any incorrect statements. Correct his error(s).

**a.** The correlation coefficient is positive because  
the data show a strong correlation.

**b.** Using extrapolation, no toys will be sold on the  
tenth day.

**c.** The parameters of the line of best fit are a slope  
of −5 and a *y*-intercept of 52.

**d.** Using interpolation, about 37 toys will be sold  
on the third day.

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Interpolation correlation coefficient extrapolation residual

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