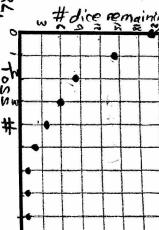
Check work with a partner and turn in at the end of class after review

1. The following data were collect by running an experiment in which 20 dice were tossed. All of the dice that showed 2s and 3s were removed, and the remaining dice were tossed. Again, all of the dice showing 2s and 3s were removed, and

a. Make a scatterplot of the data. Graph on the plot below. Find the linear model.

determination for this relationship if it were model by a linear

Explain what and ramens for this situation. When the marking in the interior of the variation of the variati least-squares regression line?

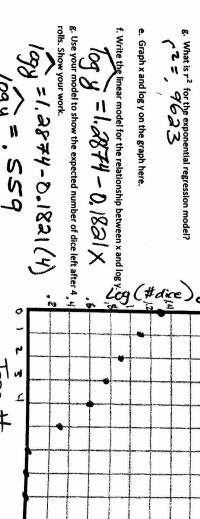


EXP. Cleary. About 1/3 of the original contents of the content of

f. What is the exponential regression model?
$$y = 19.3839 (.6575)$$

199/=1.2874-0.1821(4)

g=10.559 3.6224 dice



the ball to hit the ground, using a motion detector. He obtains the data displayed in the table here. 2. Ryan drops a ball from various heights (feet) and records the time (seconds), x, that it take for

Time 1.528 2.015 3.852 4.154 4.625

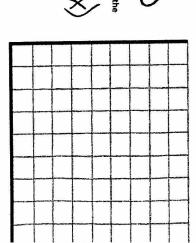
a. Look at the time vs. distance data is a linear model a good model to use? Explain Scatter (JOT LOOKS OFTER). Strong F value. towever, residual plot shows curved pattern. Ty others

98,96% of the variation Y=4.3251+2.032x explained by the exp. 2286.0 = 2

distinct be explained. J=4.9339× 1.9938 (2=0.999994 wow).

d. What transformation will you use to straighten the data

e. Write the transformed linear regression model and identify the



e. Predict the distance a ball would have to fall in order to take 4.2 seconds to hit the ground. Show work.

In
$$y = 1.5961 + 1.9728 (ln 4.2)$$

In $y = 4.4559 = 1.9539 = 1.$