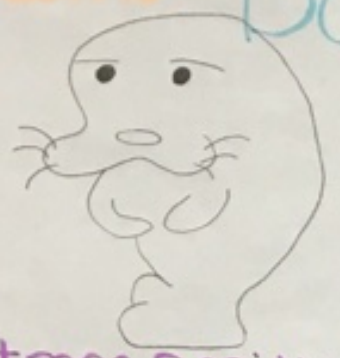


X: Powerboats (1,000s)
 Y: Manatee Deaths

\bar{x} : 577.33
 \bar{y} : 31

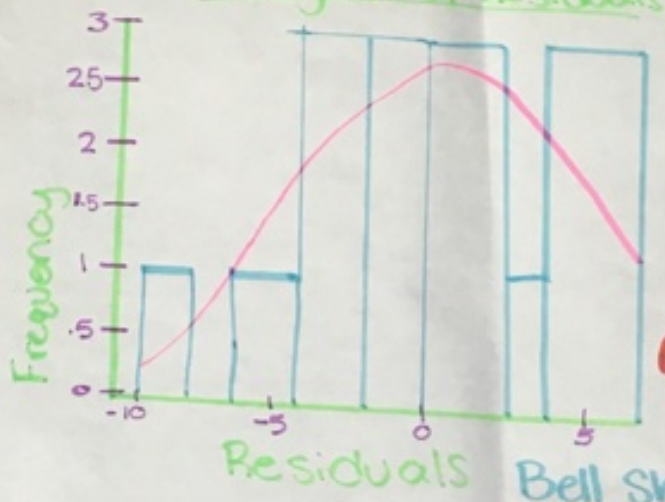
s_x : 96.59
 s_y : 13.23

r : 0.9499 (Strong; Positive)
 r^2 : 0.9023, 90.23%



Boats/Manatee Deaths

Histogram of Residuals



Bell Shaped;
 Centered at 0

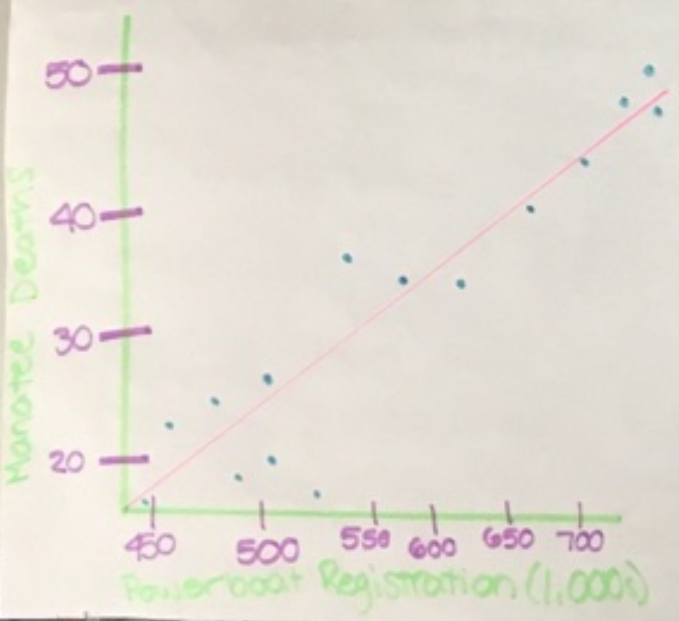
Scope of X-values:
 $447 \leq \text{Powerboats} \leq 719$
 * In the 1,000s

Prediction
 $x = 585.3$

$-44.109 + (0.1300936 \times 585.3) = 32.038155$
 * This answer would be 4.29 off

90.23% of manatee deaths can be explained by a relationship with Powerboats

Scatterplot



Slope = 0.1301

Manatee deaths would increase 0.1301 for every 1,000 powerboats registered.

Y-int = -44.11

If zero boats were registered there would be -44.11 manatee deaths.*

* Formula wasn't designed for zero

Residual Errors: 4.29

- The average prediction error is 4.29.
- The average distance from the line (vertical)

"Fan Shaped"

Residuals vs. Powerboats

