

Science 9
Graphing Assignment 2

KEY

For each of the following, plot the data, calculate the slope and then estimate the answer to the problem from your line of best fit.

1. A student who waits on tables at a restaurant recorded the cost of meals and the tip left by single diners.

Meal Cost	\$4.75	\$6.84	\$12.52	\$20.42	\$8.97
Tip	\$0.50	\$0.90	\$1.50	\$3.00	\$1.00

If the next diner orders a meal costing \$10.50, how much tip should the waiter expect to receive?

Slope _____

Tip expected ~ \$1.25

2. The table below shows the lengths and corresponding ideal weights of sand sharks.

Length	60	62	64	66	68	70	72
Weight	105	114	124	131	139	149	158

Predict the weight of a sand shark whose length is 75 inches.

Slope _____

Weight expected ~ 171

3. The table below gives the height and shoe sizes of six randomly selected men.

Height	67	70	73.5	75	78	66
Shoe size	8.5	9.5	11	12	13	8

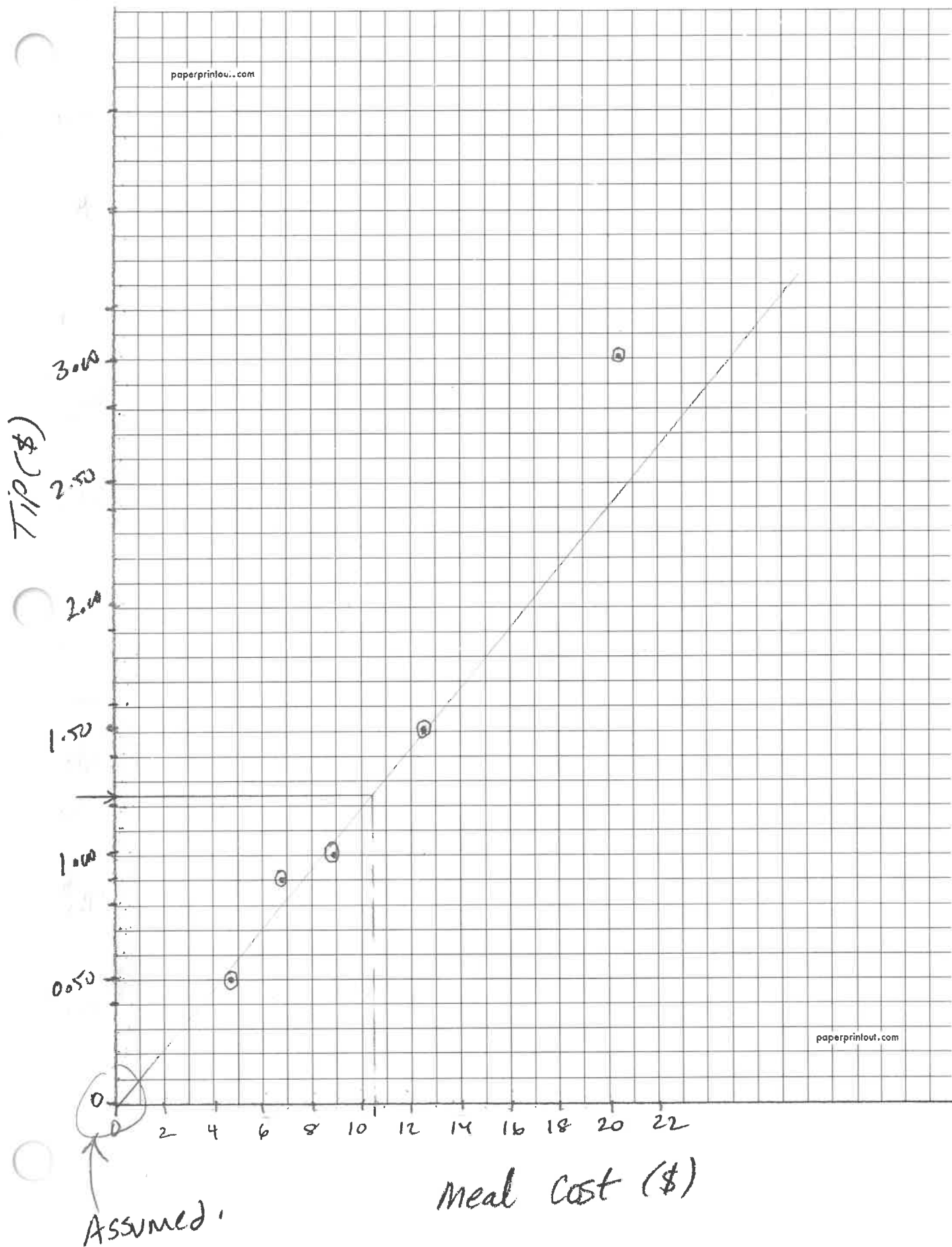
If a man has a shoe size of 10.5, what would be his predicted height?

Slope _____

Height expected ~ 72

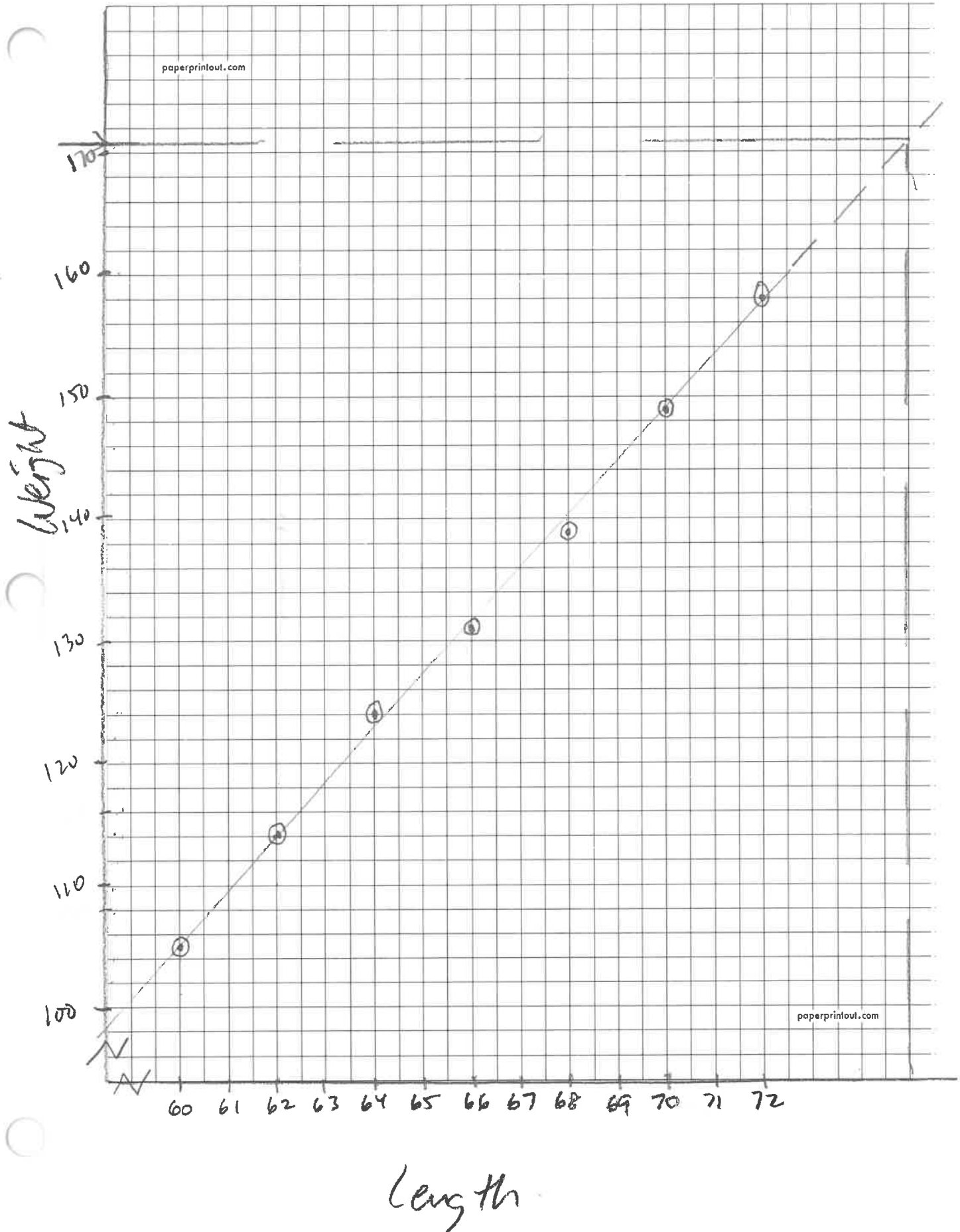
1

Tip (\$) Vs Meal cost (\$)



(2)

Weight () Vs length ()



3

Shoe size vs height.

