

1. Draw a **curve** of best fit on the following data and answer the following questions: (4 marks)

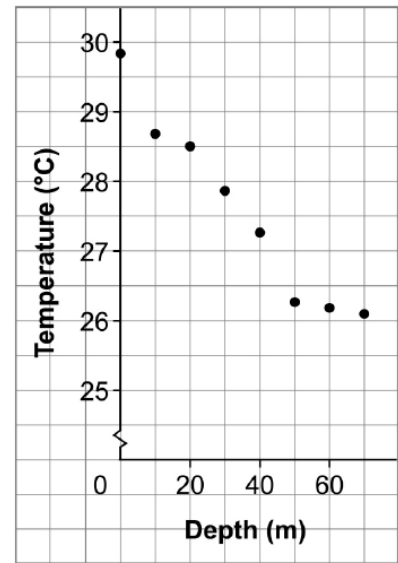
What is the water temperature at a depth of 25m?

(Show how you came up with your answer on the graph.)

What is the depth when the water temperature is 26.5°C?

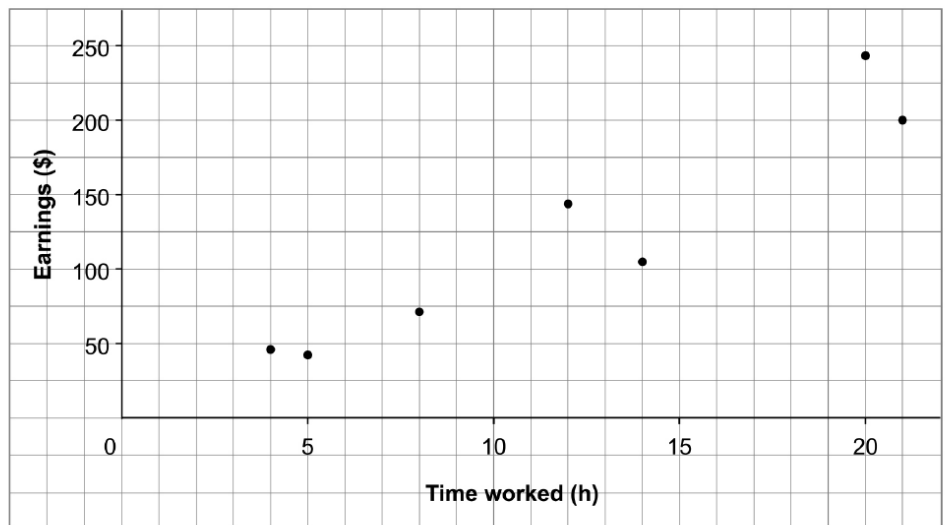
(Show how you came up with your answer on the graph.)

Water Temperature and Depth in Lake Turkana



2. (a) Determine (draw by hand) the equation of the line of best fit for the graph below (as outlined in the video lesson). (6 marks)

Student Earnings



- (b) Optional Technology Challenge

Find the equation of the line of best fit using Excel and compare it to your answer from part (a)

Time	Earnings
4	50
5	48
8	73
12	146
14	105
20	242
21	200