Beneath the surface

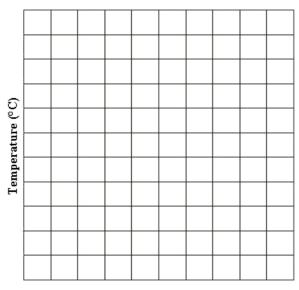
This task is about using data to explore temperature in the interior of the Earth.

The table below gives the temperatures recorded at different depths (as a change from the surface temperature) in a section of the Earth's crust.

Depth (km)	0	1	2	3	4	5	6	7	8
Temperature (°C)	0	20	45	70	95	120	?	170	195

a) Plot this data as a line graph.

Temperature change with depth in the Earth's crust



Depth (km)

b)	From the grap	h, what is	the tem	perature at	a depth	of 6 km?	°C
----	---------------	------------	---------	-------------	---------	----------	----

c)	An underground coal mine is being developed in this area. If the miners could work in
	temperatures of 30°C or less, what is the maximum depth this coal mine could be?

km

d)	Calculate the a	average temperature c	change for each	kilometer change	in depth.	°C

9)	Write a sentence explaining how the relationship between temperature and depth change	ges
	as the depth increases.	