



**Advanced Mathematics
Support Programme®**

Cabling problem

A cable TV company based in Plymouth wants to link all the towns on the map. To keep costs to a minimum they want to use as little cable as possible.

What strategy should they use to solve the problem?

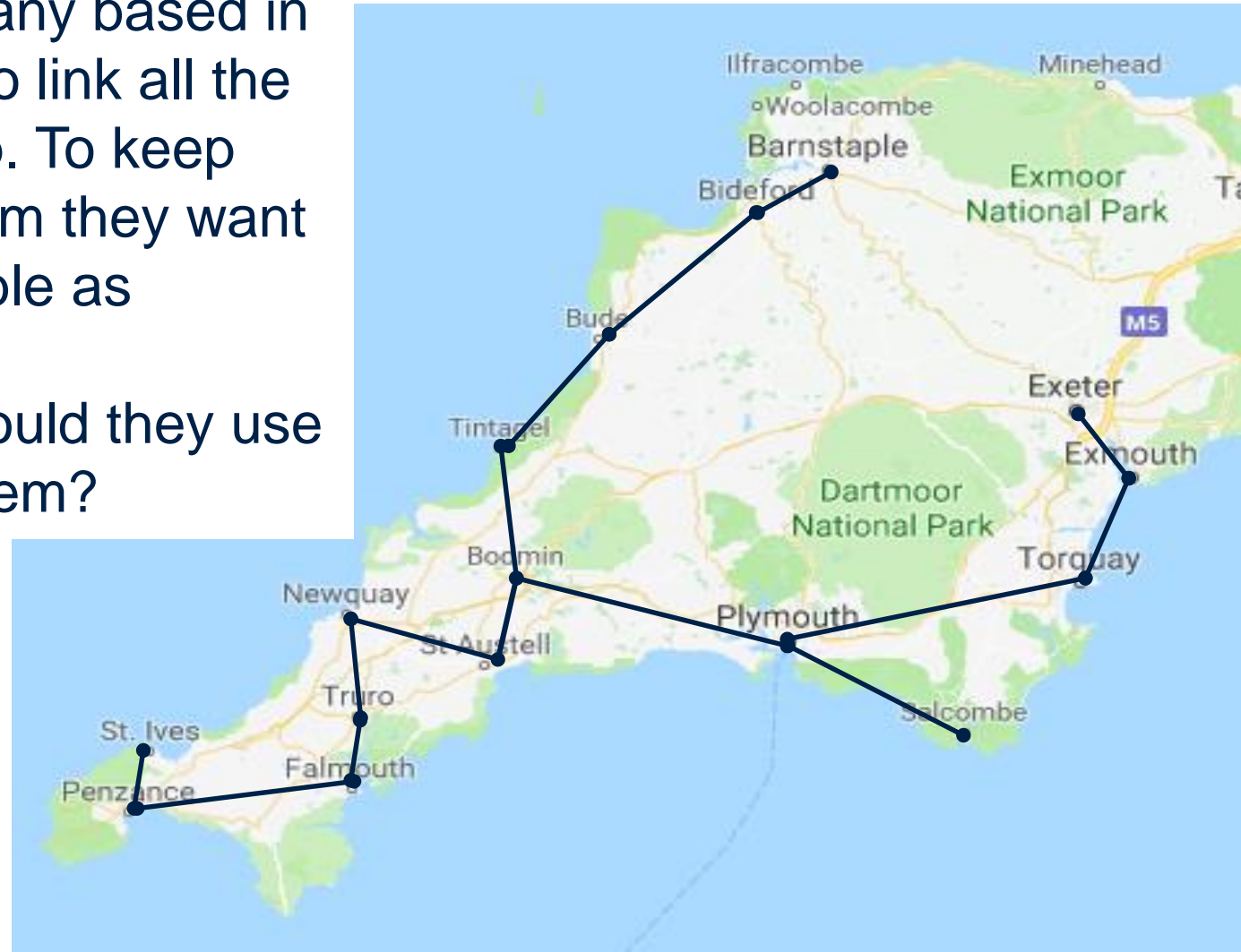


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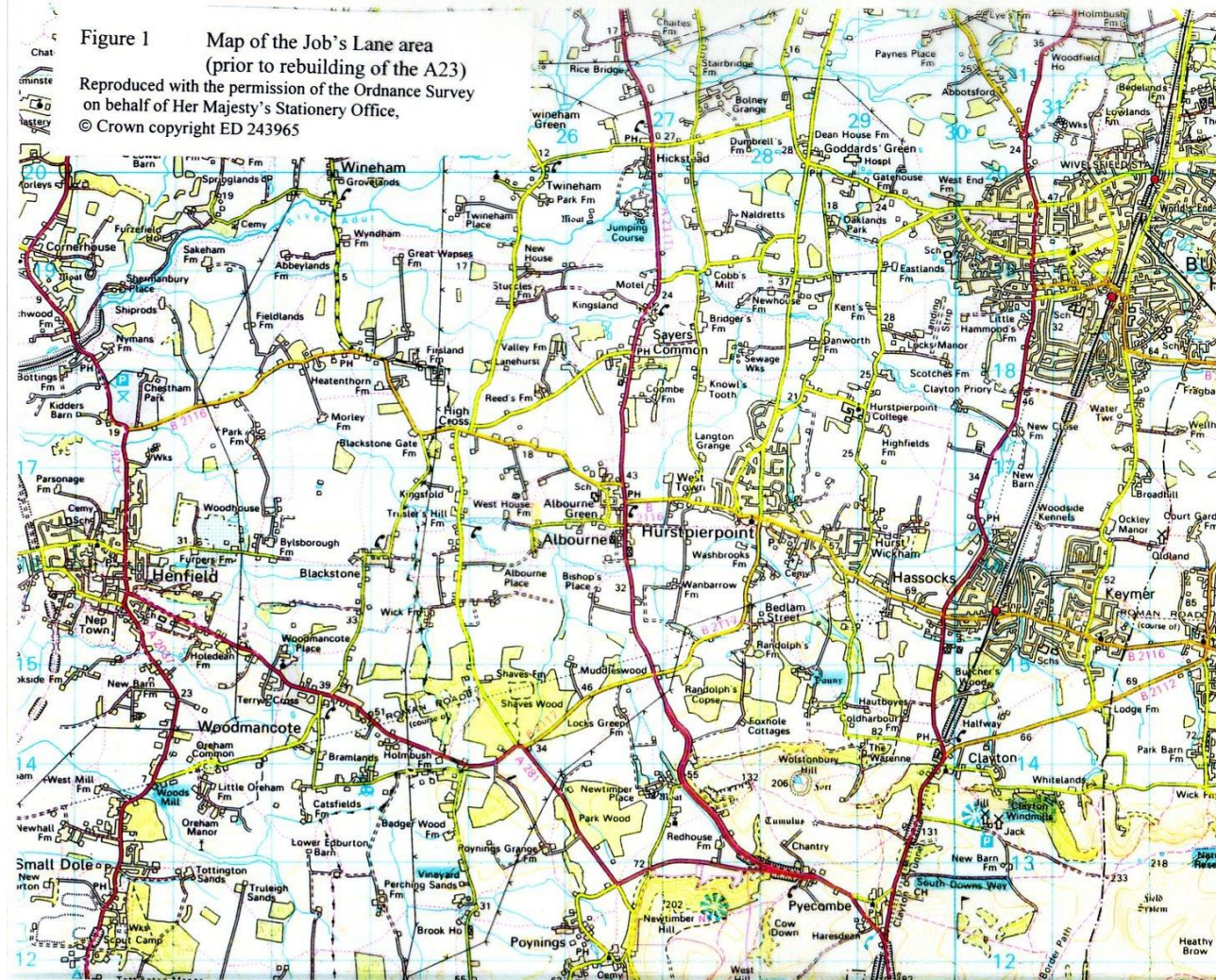
What strategy should they use to solve the problem?

A minimum spanning tree



Gritting the roads

Figure 1 Map of the Job's Lane area (prior to rebuilding of the A23)
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A frost has been predicted and the major roads need to be gritted.

How could we model this as a discrete maths problem?

About the AMSP

- A government-funded initiative, managed by MEI, providing national support for teachers and students in all state-funded schools and colleges in England.
- It aims to increase participation in AS/A level Mathematics and Further Mathematics, and Core Maths, and improve the teaching of these qualifications.
- Additional support is given to those in priority areas to boost social mobility so that, whatever their gender, background or location, students can choose their best maths pathway post-16, and have access to high quality maths teaching.

Contact the AMSP



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Advanced_Maths