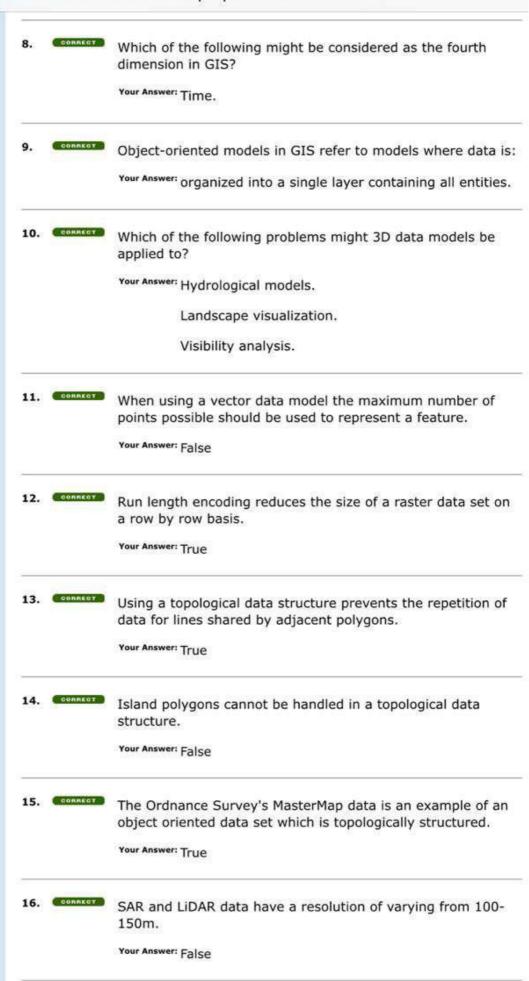
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The accuracy of a DTM created from GPS data will be low.

Your Answer: False

17. CORRECT



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rimes or particular events.

8. Aronoff (1989) classifies GIS analysis procedures into which of the following?

Your Answer: Those used for storage and retrieval.

Modelling procedures or functions for the prediction of what data might be at a different time and place.

Constrained queries that allow the user to look at patterns in their data.

9. Spatial referencing is the process of which of the following?

Your Answer: Combing attribute values with locational information.

10. Geographical Information Science (GISc) can be defined as:

Your Answer: the science behind GIS.

Performing the same analysis in two different GIS software packages will always give the same results.

Your Answer: False

12. Human factors influence the success of GIS as a decision support tool.

Your Answer: True

13. Reality can be represented in GIS as a series of layers or as objects.

Your Answer: True

14. Attribute data are one type of spatial data.

Your Answer: False











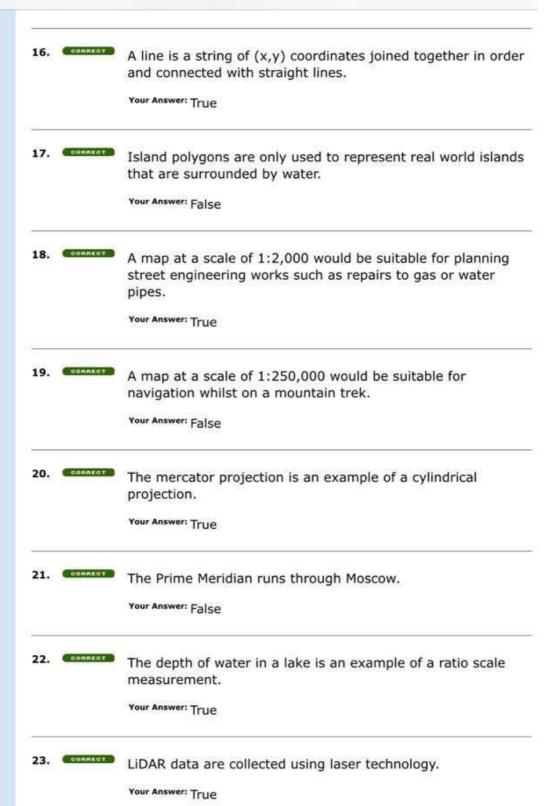


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Your Answer: True 14. CORRECT Island polygons cannot be handled in a topological data structure. Your Answer: False 15. COURSE The Ordnance Survey's MasterMap data is an example of an object oriented data set which is topologically structured. Your Answer: True 16. CORRECT SAR and LiDAR data have a resolution of varying from 100-150m. Your Answer: False 17. CORRECT The accuracy of a DTM created from GPS data will be low. Your Answer: False 18. CORRECT DTMs can be created by digitizing from a paper map. Your Answer: True 19. CORRECT A 'surface significant' point in a TIN model is one which can be closely interpolated from its neighbours. Your Answer: False 20. CORRECT The number of places available at a school could be used as a 'supply' variable in a network used for routing school transport. Your Answer: True 21. CONNECT A wire frame diagram is a 2.5D representation. Your Answer: True







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1. COARCOT
The vector data model is based on which of the following?

Your Answer: Cartesian coordinate system.

Collections of points joined by straight lines.

The raster data model is based on which of the following?

Your Answer: Tesselations.

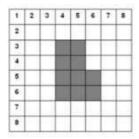
Grid cells or pixels grouped to form spatial entities.

Grid cells.

3. Which of the following is NOT a raster data structure?

Your Answer: Spaghetti.

4. CORRECT



For the above entity, which of the following chain encoding solutions is correct?

Your Answer: 4,6 1 N,4 E,1 S,1 E,1 S,1 W,2

Which of the following are advantages of DEMs over TINs when creating Digital Terrain Models (DTMs)?

Your Answer: DEMs use a simple data model.

DEMs can directly accept inputs from digital height grids.

Which of the following are methods of identifying surface significant points in the construction of a TIN?

Your Answer: The skeleton method.

The filter or VIP method.

The drop heuristic method.

Which of the following are applications of network analysis?

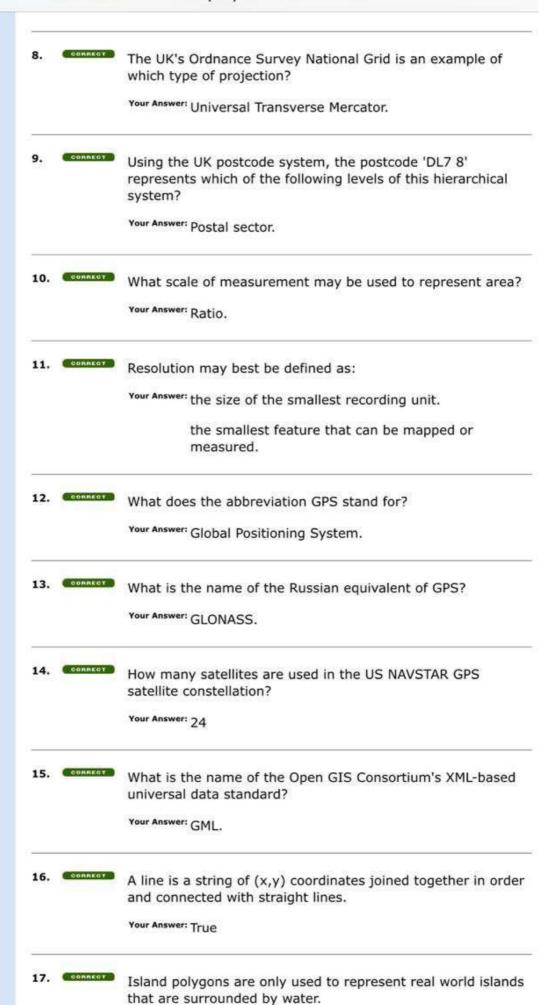
Your Answer: Flood routing.

Shortest path calculations.

Travelling salesperson problem.

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Your Answer: False

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Submitted:

Which three of the following questions may be best answered using a GIS?

Your Answer: Where is a particular feature found?

Where do certain conditions apply?

What geographical patterns exist?

2. Which of the following are key application disciplines for GIS?

Your Answer: Civil engineering.

Commerce and business.

Environmental sciences.

Transport.

A GIS is 'a set of tools for collecting, storing, retrieving at will, transforming, and displaying spatial data from the real world for a particular set of purposes' is a well used definition of a GIS provided by:

Your Answer: Peter Burrough (1986).

Which of the following list is the key area of GIS functionality missed out by the above definition?

Your Answer: Analysis.

Which of the following is not a key concept that is part of our definition of GIS?

Your Answer: GIS can be used in all areas of modern science.

6. Which of the following are essential components of a GIS?

Your Answer: Appropriate GIS software.

A visual display unit capable of high resolution colour graphical display as well as text.

Data input and output devices such as digitizers/scanners and printer/plotters.

A computer with sufficient memory and processing power to run the software.

Spatial data.

Which of the following is not an example of spatial data?

Your Answer: Times of particular events.

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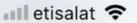
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Glossary

Profile

Date/Time April 9, 2019 at 8:30 PM (UTC/GMT)

1. CCORRECT

Which of the following are considered key elements of a paper map?

Your Answer: Projection information.

Annotation.

Map features (points, lines, areas, surfaces).

Scale bar or ratio.

Which of the following list are appropriate definitions of scale?

Your Answer: The order of magnitude or level of generalization at which phenomena exist or are perceived or observed.

An indication of how big an object represented on the map is on the ground.

The ratio of a distance on a map to the corresponding distance on the ground.

What does 1mm on a map drawn at a scale of 1:50,000 represent on the ground?

Your Answer: 50 metres.

4. How is a large city most likely to be represented on a 1:25,000 scale map?

Your Answer: As a collection of points, lines and areas.

Generalization is the process by which: (check those that apply)

Your Answer: real-world features are simplified to allow them to be drawn on a map at reduced scale.

the cartographer communicates the spatial pattern and organization of real-world objects on a map.

real-world features are selected or not selected for inclusion on a map.

Which of the following is an example of map generalization?

Your Answer: Polygon coordinate thinning.

Which of the following is not a type of map projection?

Your Answer: Geographic.