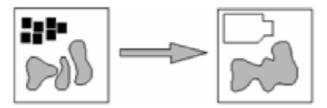
Question 1 The granularity property of spatial data indicates how to interpret the spatial, temporal, and thematic components of the data. True False Correct. Granularity is in essence a spatial property (although metaphorically it could be transferred to temporal and thematic components - think about it).

Question 2	0/0 pts
A globe is not a map.	
True	
False	
Correct. It is not a map because it is not a projected (plana representation.	r)

Question 3 0/0 pts

Which type of cartographic generalization is represented in the following picture?



- Displacement
- Aggregation

Correct: elements are aggregated to more general ones.

- Classification
- Refinement

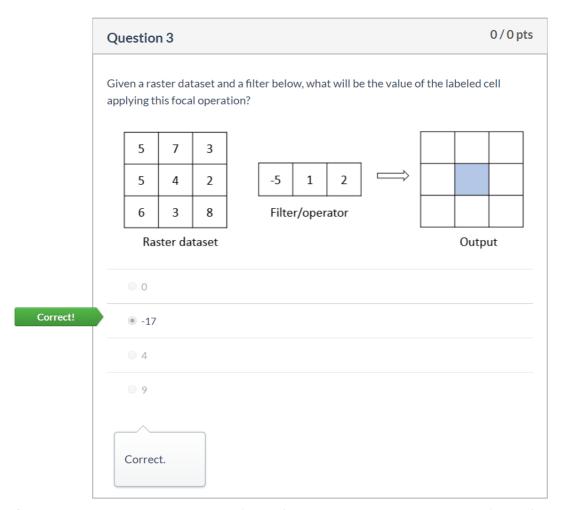
Correct.

Question 4	0 / 0 pts
"Lateral circles are concentric circles around the poles" is a true projections.	a property of
True	
False	
Correct. In some cases they are even straight lines cocircles with infinite radius.	oncentric
Question 5	0 / 0 pts
Question 5 The azimuthal projection is not a true projection.	0 / 0 pts
	0/0 pts
The azimuthal projection is not a true projection.	0 / 0 pts

	Question 1	0 / 0 pts
	How long is the boundary of the blue feature?	
You Answered	8	
	16	
	© 4	
Correct Answer	18	
	Incorrect. Please revisit the slide - Raster data geographic feature.	

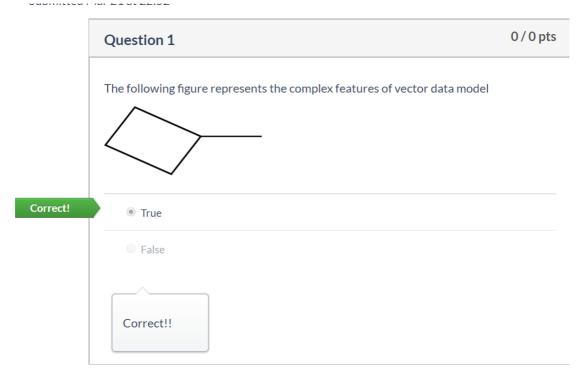
数 edge

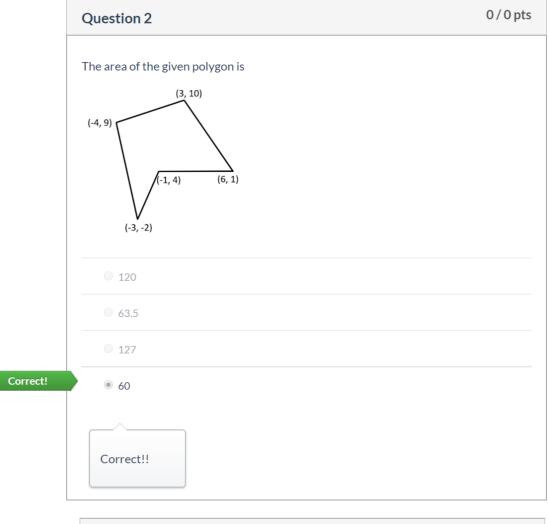
0 / 0 pts Question 2 The following temperatures are observed at the places A-P: A=47, B=52, C=55, D=42, E=56, F=41, G=40, H=50, I=55, J=52, K=50, L=40, M=46, N=43, O=52, P=56. D В C b G F Н Ε 0.5 f d κ | 10.4 L I J h g Μ 0 Ν Р What is the temperature at the place 'e', 50 applying nearest neighbourhood interpolation, and 45 applying bilinear interpolation? Answer 1: Correct! 50 Answer 2: Correct! 45

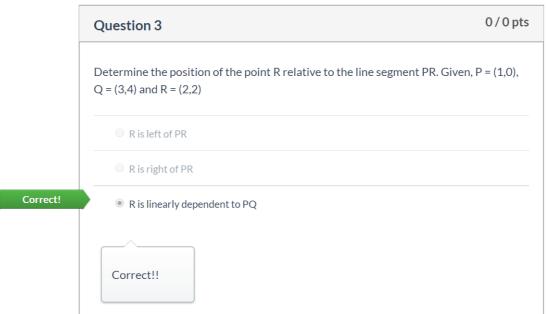


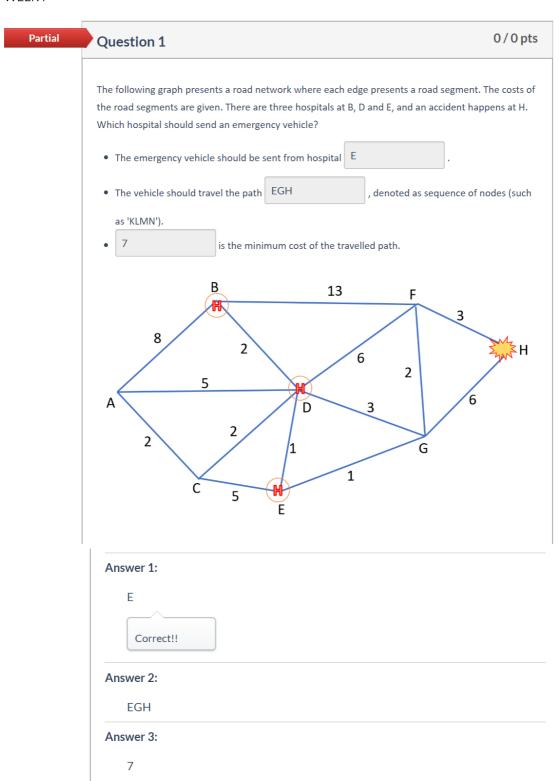
只有中间一行的话就只取中间一行,不算其他格子,只用这三个 cell apply filter 算中间格子



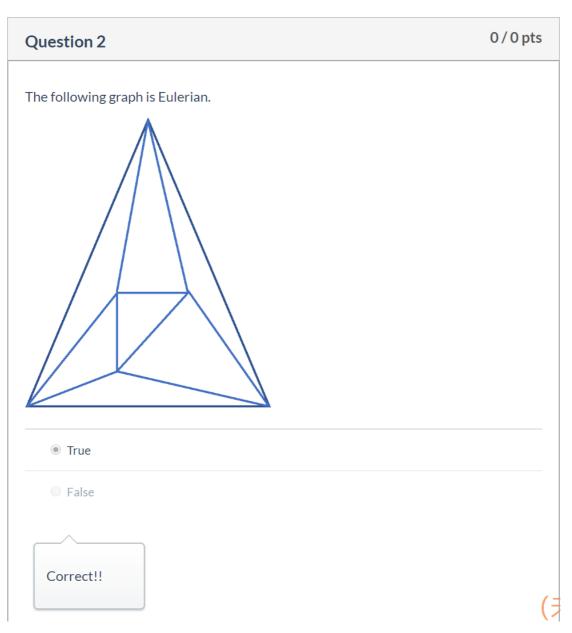








你仔细一点好不好, EGFH 才是最短



可以有奇数 degree node ,但的是两个,且为起终点

Question 3	0 / 0 pts
If a directed graph is represented by the following adjacency matrix, what is indegree of node C?	the
ABCDE	
A 01100 B 00110 C 00100 D 00001 E 00100	
1	
© 3	
© 2	
4	
Correct!!	

Question 1 0/0 pts

Use the given formula to compute a Delaunay triangulation. Apply this formula for the given set of four points A (1,0), B (3,2), C (3,4), and D (0,1). Choose the initial triangle of A, B, C to start with. Compute the centre of the circumcircle of (A, B, C), and decide on your action how to add D to the triangulation. Your solution for the centre point is

0 and 3 . Your solution for the radius of the

circumcircle, down to two digits, is 3.16

Note: In this formula the notation for points is the usual vector representation, i.e. p = (xp, yp)!

The centre of a circumcircle - $\begin{array}{rcl} \mathbf{m} & = & \mathbf{p_1} + \lambda(\mathbf{p_2} - \mathbf{p_1}) + \mu(\mathbf{p_3} - \mathbf{p_1}) \\ & = & \mathbf{p_1} + \lambda\mathbf{v} + \mu\mathbf{w} \end{array}$

with

$$\lambda = 0.5 \frac{\begin{vmatrix} \mathbf{v}^T \mathbf{v} & \mathbf{v}^T \mathbf{w} \\ \mathbf{w}^T \mathbf{w} & \mathbf{w}^T \mathbf{w} \end{vmatrix}}{\begin{vmatrix} \mathbf{v}^T \mathbf{v} & \mathbf{v}^T \mathbf{w} \\ \mathbf{v}^T \mathbf{w} & \mathbf{w}^T \mathbf{w} \end{vmatrix}}$$
$$\mu = 0.5 \frac{\begin{vmatrix} \mathbf{v}^T \mathbf{v} & \mathbf{v}^T \mathbf{v} \\ \mathbf{v}^T \mathbf{w} & \mathbf{w}^T \mathbf{w} \end{vmatrix}}{\begin{vmatrix} \mathbf{v}^T \mathbf{v} & \mathbf{v}^T \mathbf{v} \\ \mathbf{v}^T \mathbf{w} & \mathbf{w}^T \mathbf{w} \end{vmatrix}}$$

Answer 1:

Correct!

0

Answer 2:

Correct!

3

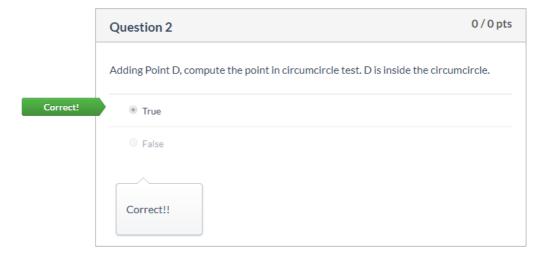
Answer 3:

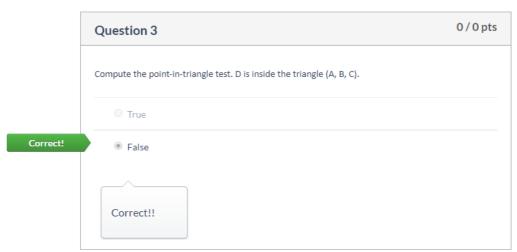
Correct Answer

3.16

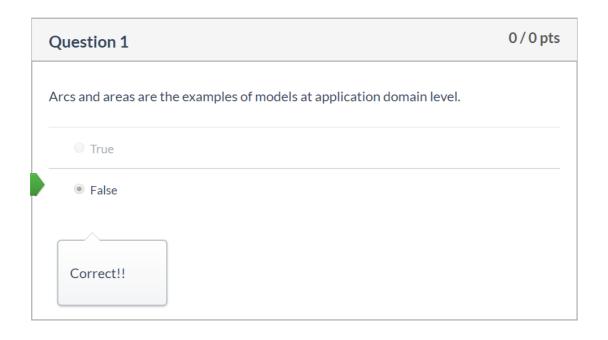
Correct.

(Distance from the centre to one of A, B, or C)





WEEK 7



Question 2	0 / 0 pts
The 'I' in the ACID principles of database transaction indicates-	
Integrity	
Isolation	
Independency	
Interpolation	
Correct!!	

Question 3 0/0 pts

The following table is in normal form

ID	x1	y1	x2	y2	х3	у3	Area
Α	2	3	4	5	3	8	18
В	6	7	4	2	0	7	14.6

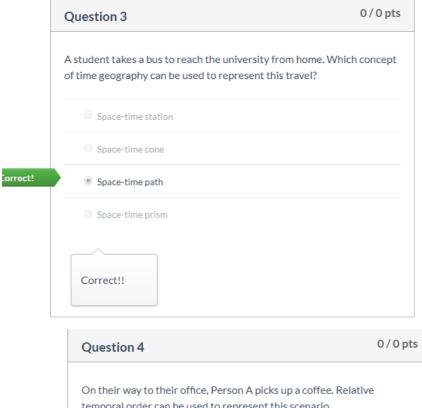
True

False

Correct!!

WWEK8

The following figure illustrates an example of two people – person A and person B trying to meet for lunch. From the figure find out the maximum duration of the lunch. Time Person B 15 30 mins 37 mins 1 hr 30 mins rrect! 45 mins Correct!! 0 / 0 pts Question 2 In the above example, which concept of time geography has been used? Space - time station Space - time cone Correct! Space - time prism Space - time path Correct!!

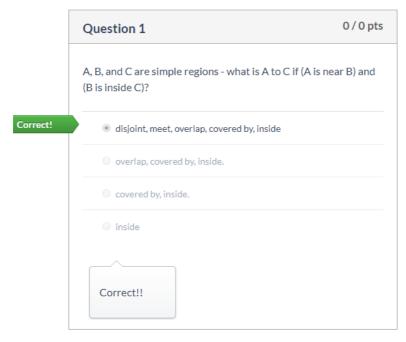


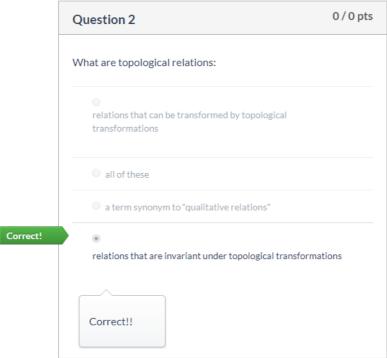
On their way to their office, Person A picks up a coffee. Relative temporal order can be used to represent this scenario.

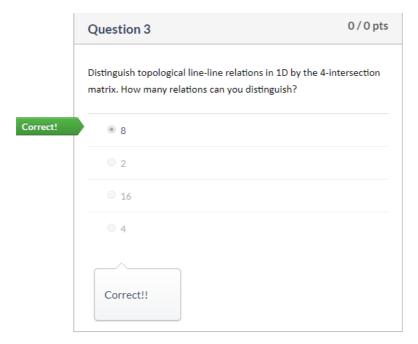
True

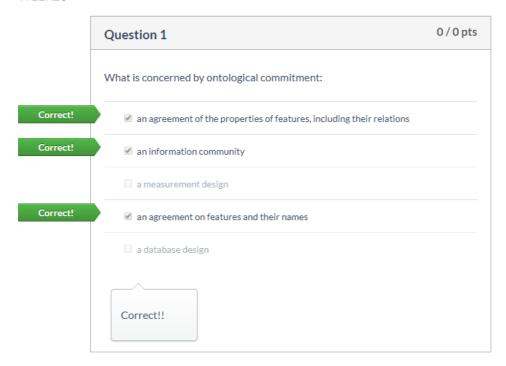
False

Correct!!





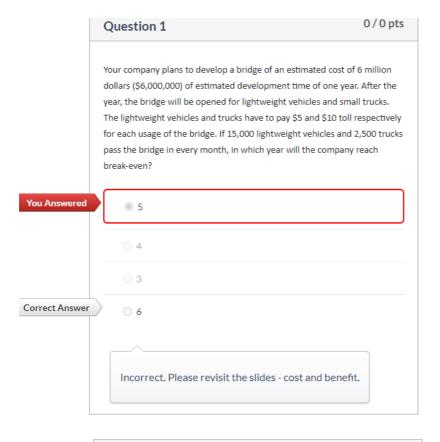


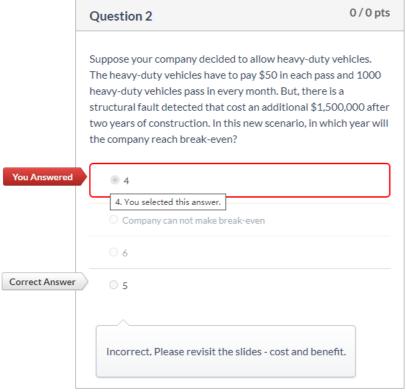


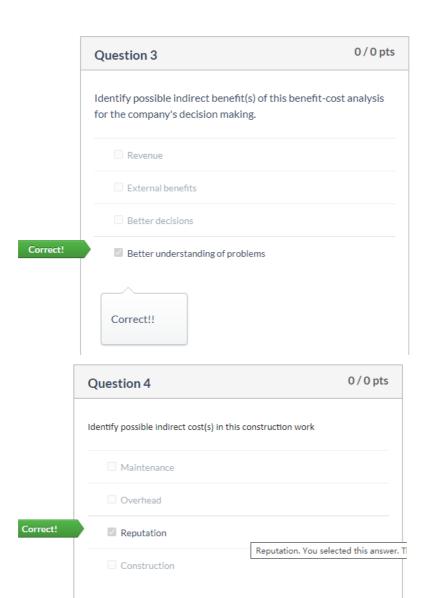
	Question 3	0 / 0 pts
	What are typical elements of data quality from a provider's perspective	?
	scale	
	resolution	
	price	
Correct!		
	□ metadata	
Correct!		
	Correct!!	

	Question 2	0 / 0 pts
	Which of the following statements are correct?	
Correct!	✓ Every map of the same scale should show the same features	
	Every map of the same scale should show the same legend	
	At least one table in any road database should contain a column "street_	id"
	Every road database should contain a table "street"	
	Correct!!	

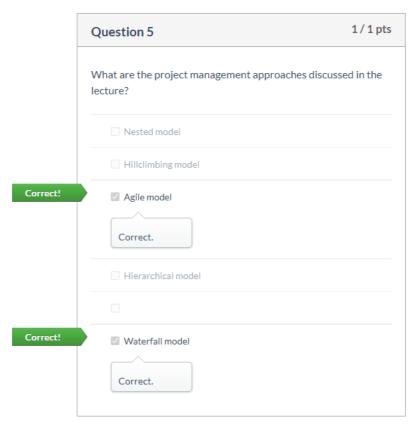
LECT 里全错,他还没改







Correct!!



One of the four categories in URISA's Code of Ethics for GIS professionals is - Obligations to Individuals in Society.

True

Obligations to Society includes – deliver quality work, be honest in representations. false

A principle of data privacy is – shared private information can remain confidential.

True