Started on	Thursday, 3 October 2024, 3:06 PM
State	Finished
Completed on	Thursday, 3 October 2024, 3:09 PM
Time taken	3 mins 22 secs
Grade	**18.00** out of 20.00 (**90**%)

Question 1

Correct

Mark 2.00 out of 2.00

Time may be represented as either linear or cyclic, depending on what we want to see.

Select one:

- True ✓
- False

Question 2

Correct

Mark 2.00 out of 2.00

Characterize the following data in terms of scale, scope and arrangement:

Task: find the number of meteorites that have fallen in American soil over the last decade.

Data:

24 sept 2013 - Argentina

15 jan 2014 - Kazakhstan

...

Scope: point-based ✓

Scale: discrete ✓

Arrangement: linear ✓

Your answer is correct.

Question 3

Correct

Mark 2.00 out of 2.00

Match the name of the representation with its purpose or description.

Sparklines	Are small lines that fit in sm ✓
Small multiples	A collection of similar charts ✓
Steamgraphs	Represents stacked areas i ✓

Your answer is correct.

Question 4

Incorrect

Mark 0.00 out of 2.00

Characterize the following data in terms of associated time primitives.

Task: find the number of meteorites that have fallen in American soil over the last decade.

Data:

24 sept 2013 - Argentina

15 jan 2014 - Kazakhstan

...

a. Span ✗

b. Interval

c. Instant

d. Cyclic

Your answer is incorrect.

Question 5

Correct

Mark 2.00 out of 2.00

In terms of scope, time may be seen...

a. Interval-based, which may be useful to compare particular instants in time.

b. Interval-based, taking advantage of the continuous nature of time.

c. As point-based - we may represent particular moments in time. ✓

d. As point-based, because the continuous nature of time should be avoided.

Your answer is correct.

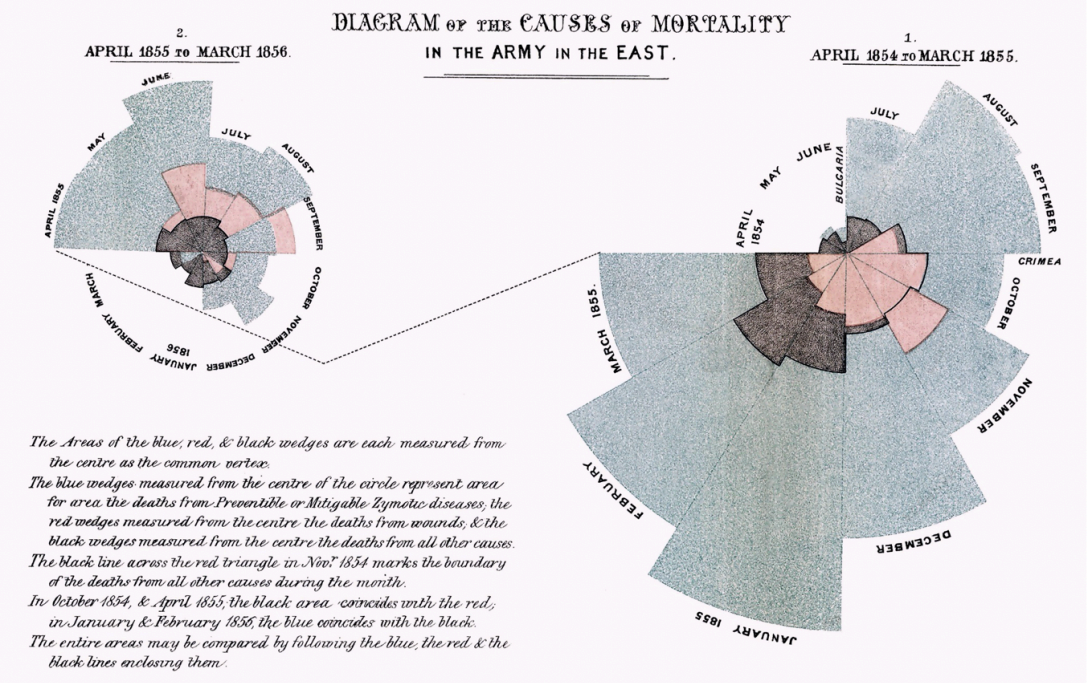
Question 6

Correct

Mark 2.00 out of 2.00

Match the techniques to their corresponding time scale and arrangement.

Nightingale's Rose (see image below)



Calendar heatmaps — Discrete and c ✓

Radial charts — Continuous an ✓

(Traditional) Line charts — Continuous an ✓

Your answer is correct.

Question 7

Correct

Mark 2.00 out of 2.00

Time is inherently linear...

a. Which may be taken advantage of when representing trends over a period of time. ✓

b. But only when represented in a continuous manner.

c. But we should avoid representing time in a linear manner because we may lose information.

d. Which may be taken advantage of when representing cyclic events.

Your answer is correct.

Question 8

Correct

Mark 2.00 out of 2.00

Time may be seen as...

- a. Discrete. We may discretize time in minutes, seconds, days, etc.
- b. Continuous. If we don't discretize, we may zoom in indefinitely
- c. Ordinal. We may establish an order.
- d. All the other options are correct. ✓

Your answer is correct.

Question 9

Correct

Mark 2.00 out of 2.00

Time is inherently cyclic...

- a. Which implies that we must always represent time in a circular setting.
- b. Which highlights the importance of always representing time in a well-designed, linear, timeline.
- c. And this feature, if leveraged, may help highlight important repeating patterns. ✓
- d. No, it is not. It is always linear.

Your answer is correct.

Question 10

Correct

Mark 2.00 out of 2.00

Regarding time primitives, time can be represented as:

- Instant
- Duration
- Span.

Associate each one to their corresponding instance.

Span	3 months	✓
Duration	21 jun 2021 06:50:12 - 22 ju	✓
Instant	21 jun 2021 06:50:12	✓

Your answer is correct.