

✓ **Congratulations! You passed!**  
TO PASS: 80% or higher

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GRADE  
100%

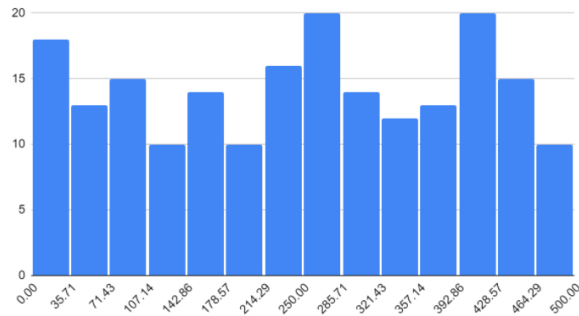
## Weekly challenge 1

LATEST SUBMISSION GRADE  
100%

1. A data analyst working for an e-commerce website creates the following data visualization to show the amount of time users spend on the site:

1 / 1 point

Time Spent on Site (in seconds)



What type of visualization is it?

- ☒ Histogram  
☐ Line graph  
☐ Correlation chart  
☐ Scatter plot

✓ **Correct**  
It is a histogram. Histograms demonstrate how often data values fall into certain ranges.

2. What do correlation charts reveal about the data they contain?

1 / 1 point

- ☒ Relationships  
☐ Changes  
☐ Causation  
☐ Visualization

✓ **Correct**  
Correlation charts indicate relationships among data.

3. You are creating a presentation for stakeholders and are choosing whether to include static or dynamic visualizations. Describe the difference between static and dynamic visualizations.

1 / 1 point

- ☐ Static visualizations combine multiple visualizations into a whole. Dynamic visualizations separate out the individual elements of a single visualization.  
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☐ Static visualizations are interactive and can automatically change over time. Dynamic visualizations do not change over time unless they're edited.  
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✓ **Correct**  
Static visualizations do not change over time unless they're edited. Dynamic visualizations are interactive and can automatically change over time.

4. Sophisticated use of contrast helps separate the most important data from the rest using the visual context that our brains naturally respond to.

1 / 1 point

- ☒ True  
☐ False

✓ **Correct**  
Sophisticated use of contrast helps separate the most important data from the rest using the visual context that our brains naturally respond to.

5. A data analyst makes sure that they approach problems in a user-centric way. What element of data analytics does this describe?

1 / 1 point

- ☐ Structured thinking

- 
- ☐ Critical thinking
  - ☐ Analytical thinking
  - ☒ Design thinking

✓ **Correct**

Design thinking is a process used to solve complex problems in a user-centric way.

6. You are in the ideate phase of the design process. What are you doing at this stage?

1 / 1 point

- ☐ Sharing data visualizations with a test audience
- ☒ Generating visualization ideas
- ☐ Making changes to your data visualization
- ☐ Creating data visualizations

✓ **Correct**

There are five phases of the design process: empathize, define, ideate, prototype, and test. The ideate phase is when you start to generate your data visualization ideas.

7. A data analyst wants to make their visualizations more accessible by adding text explanations directly on the visualization. What is this called?

1 / 1 point

- ☐ Simplifying
- ☐ Distinguishing
- ☒ Labelling
- ☐ Subtitled

✓ **Correct**

This is labelling. Labelling data directly instead of relying on legends can make data visualizations more accessible.

8. Distinguishing elements of your data visualizations makes the content easier to see. This can help make them more accessible for audience members with visual impairments. What is a method data analysts use to distinguish elements?

1 / 1 point

- ☐ Ensure all elements are highlighted equally
- ☒ Separate the foreground and background
- ☐ Use contrasting colors and shapes
- ☐ Add a legend

✓ **Correct**

Data analysts distinguish elements of data visualizations by separating the foreground and background and using contrasting colors and shapes.