## **Directions**

* ***Step# 1*** , Find the shortest path from A to C for the three graphs below. Underline the path and make a note of the total distance. When you’re done, compare with a partner to see if you found the same things.
  + Note: we’re interested in finding the fastest, cheapest, most efficient way to route information from one place to another.
* ***NEXT***, after you have identified the shortest path from A to C, go back and find the shortest path from A to B, D, and E
* compare with a partner to see if you found the same things.
* In your notebook, write down a few ideas for how an algorithm to find the shortest path might work. Maybe make a few notes about what’s potentially tricky: what things do you want to be sure to remember?

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| Graph | Notes |
| Initial Node: A  Destination Node: E |  |
| Initial Node: A  Destination Node: E |  |
| Initial Node: A  Destination Node: E |  |
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