**DAY 3: Weighted Graphs** Name: \_\_\_\_\_\_\_\_\_Key\_\_\_\_\_\_\_\_\_\_



1. Create a scenario for the weighted graph above. Make sure that you have stated what the vertices, edges, and weights represent.

Multiple answers.

1. Create an algorithm for the shortest and longest path that you can find for the graph above. (one possible answer is below for longest)

Shortest – FBCDGEA = 28

Longest – GFBAEGC = 40

1. How much longer is the longest path than the shortest path?

40 – 28 = 12

1. Which path will you need for your scenario above?

Multiple answers