Learning Target: (2C) I can graph revenue and cost functions on the same graph for the purpose of analyses.

Skills to Look For:

___ **[Graphing Cost and Revenue]**

+ I can create a table of data by evaluating (plugging into) both cost and revenue functions.
+ I plot points to represent both functions on the same graph

___ **[Thinking about Profit by comparing Cost and Revenue]**

+ I can use the graph to see the "big picture" of what is happening for the business.
+ I can write sentences describing when the business will have positive profit, negative profit or zero profit!

Business 2: Street Beverage Entrepreneur

Fixed Costs	Variable Costs
-Transportation costs $50 per week.	-Each beverage costs $1.15 to make
-The business spends $30 on ice per week.	-The bottle for each beverage costs $0.65

Cost Function

$C(x) = 1.80x + 80$

Revenue Function

The business plans to sell each beverage for $5.00 → $R(x) = 5x$

1) Complete the table of values below to compare cost and revenue:

X (number of bevs sold)	R(x)	C(x)
10	R(10)=5*10=50	C(10)=1•8(10)+80=98
20	R(20)=5*20=100	C(20)=1•8(20)+80=116
30	R(30)=5*30=150	C(30)=1•8(30)+80=134
40	R(40)=5*40=200	C(40)=1•8(40)+80=152
50	R(50)=5*50=250	C(50)=1•8(50)+80=170