

Which Cell Phone Co. is Cheaper?

Name _____

Situation and Data:

Date _____ Assignment # _____

Suppose you are going to get a new cell phone. After doing research, you find out the information below about two different cell phone companies. Use the data to answer the questions.



Company A charges \$45 plus \$.05 per min.

Company B charges \$20 plus \$.10 per min.



1) How much would Company A charge for 200 minutes?

2) How much would Company B charge for 200 minutes?

3) How much would Company A charge for 1000 minutes?

4) How much would Company B charge for 1000 minutes?

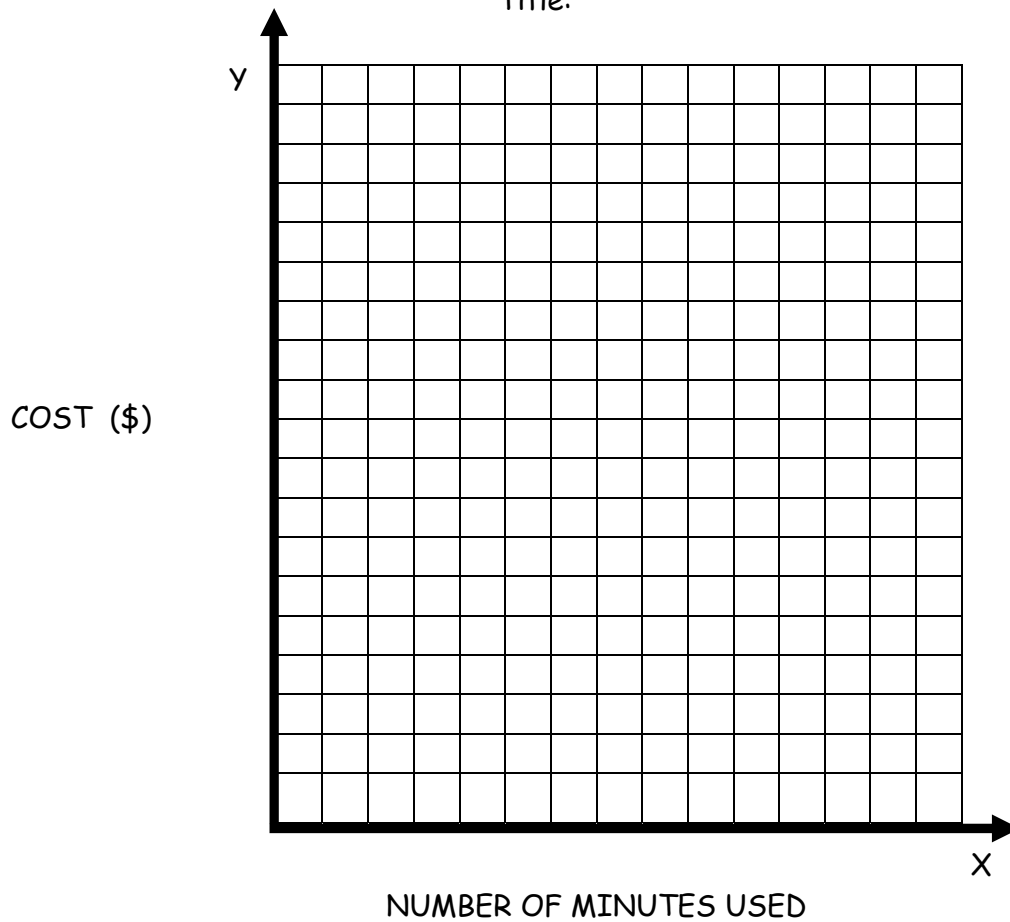
2) Write an equation for total cost for each company.

Use the equations to test the values you got in problems 1-4.

# of minutes used	Cost Company A	Cost Company B
'X'	Equation:	Equation:
200	Test:	Test:
1000	Test:	Test:

4) Graph the two equations you created on the other side. (Label each line by company).

Title:



5) Based on your graph, when do both companies charge the same amount?

6) Plug your answer into both equations to verify that they are the same price.

7) If your graph and the equations give different answers, how close are they?

8) Write a recommendation for which company to use:
(Make sure you give your reasoning.)