

What's the Plan?

Common Core Standard

6.EE.B.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.

- MP1: Make sense of problems and persevere in solving them.
 MP2: Reason abstractly and quantitatively.
 MP3: Construct viable arguments and critique the reasoning of others.
 MP6: Attend to precision.
 MP7: Look for and make use of structure.

The Task

Oakland Cell Phone Company offers the following options:

Number of Minutes	Cost	Overage
400	\$40.00	45¢ per min
800	\$60.00	40¢ per min
Unlimited	\$70.00	

Number of Texts	Cost	Overage
Pay as you go	15¢ per text	
300	\$5.00	10¢ per min
1000	\$10.00	10¢ per min
Unlimited	\$20.00	

Three friends are trying to determine the options for their new cell phone plan.

- Mitchell uses exactly 450 minutes and 200 texts per month.
- Lisa uses exactly 810 minutes and 1,200 texts per month.
- José uses exactly 700 minutes and 350 texts per month.

Based on the information above, choose an appropriate minute and text plan for Mitchell, Lisa, and José. Justify your reasoning.