

Babysitter Task

Name: _____

Date: _____ Hour: ____

This summer, Shara is looking to babysit to make some extra money. She has the choice between babysitting for two families for a month.

The Pi Family offered Shara a flat \$100 stipend for gas money plus \$75 a day to babysit.

The Radical Family had a different approach. Since they wanted to ensure Shara would stay with them for the entire month, they offered to only pay her whenever she stopped working for them in one lump sum. She would be paid an initial amount of a penny for choosing their family and then her pay would double each day she babysat until she decided to stop babysitting for them or when the month ended. (For example, she would earn \$0.01 initially, \$0.02 for the one day, \$0.04 for two days, and so on.) If at any time, she wanted to stop babysitting, they would give her the money she earned up until that point.

Which family should Shara work for, assuming she would babysit on weekdays only totaling 20 days?

Radical Family		Pi Family	
Benefits	Drawbacks	Benefits	Drawbacks