

Phone Plans

Instructions: The next three questions are about phone plans.

MP32762

Betty, Frank, and Darlene have just moved to Zedland. They each need to get phone service. They received the following information from the telephone company about the two different phone plans it offers.

They must pay a set fee each month and there are different rates for each minute they talk. These rates depend on the time of the day or night they use the phone, and on which payment plan they choose. Both plans include time for which phone calls are free. Details of the two plans are shown in the table below.

Plan	Monthly Fee	Rate per minute		Free minutes per month
		Day (8 am – 6 pm)	Night (6 pm – 8 am)	
Plan A	20 zeds	3 zeds	1 zed	180
Plan B	15 zeds	2 zeds	2 zeds	120

Frank talks for 5 hours per month at the night rate. What would each plan cost him per month? Show your work.

Cost Per Month for Plan A: _____ zeds

Cost Per Month for Plan B: _____ zeds

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Questions for Phone Plans continue. 

TIMSS 2003

Content Domain

Data

Main Topic

Data interpretation

Cognitive Domain

Solving Routine Problems

Key

See scoring guide

Frank talks for 5 hours per month at the night rate. What would each plan cost him per month? Show your work.

Cost Per Month for Plan A: _____ zeds

Cost Per Month for Plan B: _____ zeds

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Questions for Phone Plans continue. 

Code	Response	Item: M032763
	Correct Response	
20	Plan A= 140 zeds and Plan B = 375 zeds, with work shown	
	Partial Response	
10	140 zeds and 375 zeds with no work shown	
11	Plan A or plan B correct with work shown but not both.	
	Incorrect Response	
79	Incorrect (including crossed out/erased, stray marks, illegible, or off task)	
	Nonresponse	
99	Blank	