

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

Betty talks for less than 2 hours per month. Which plan would be less expensive for her?

Less expensive plan _____

Explain your answer in terms of both the monthly fee and free minutes.

Questions for Phone Plans continue.



TIMSS 2003

Content Domain

Data

Main Topic

Data interpretation

Cognitive Domain

Reasoning

Key

See scoring guide

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Less expensive plan _____

Explain your answer in terms of both the monthly fee and free minutes.

M032762

Questions for Phone Plans continue. 

Code	Response	Item: M032762
	Correct Response	
20	Plan B with explanation that includes free minutes used and explicit reference to lower monthly fee for Plan B	
	Partial Response	
10	Plan B with explicit reference to lower monthly fee and no reference to free minutes	
	Incorrect Response	
70	Plan B with inadequate (only free minutes) or no explanation	
71	Plan A with or without explanation	
79	Other incorrect (including crossed out/erased, stray marks, illegible, or off task)	
	Nonresponse	
99	Blank	