

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

M032764

Darlene signed up for the *Plan B*, and the cost of one month of service was 75 zeds. How many minutes did she talk that month? Show your work.

Minutes talked _____

End of Phone Plans section.



TIMSS 2003

Content Domain

Data

Main Topic

Data interpretation

Cognitive Domain

Solving Routine Problems

Key

See scoring guide

Darlene signed up for the *Plan B*, and the cost of one month of service was 75 zeds. How many minutes did she talk that month? Show your work.

Minutes talked _____

M032764

End of Phone Plans section. ●

Code	Response	Item: M032764
	Correct Response	
20	150 with work shown	
	Partial Response	
10	150 with no work shown	
11	Correct method but with calculation error	
12	30 with calculations leading to 30	
	Incorrect Response	
79	Incorrect (including crossed out/erased, stray marks, illegible, or off task)	
	Nonresponse	
99	Blank	