

Exemplars

Name: _____

P/S	R/P	Com	Con	Rep	A/Level

Calling Plans ○

Calling Plans

A family of four uses about four hundred minutes of outgoing calls and four hundred minutes of incoming calls each month. They want to select one of the phone companies listed below that will cost the family the least amount of money.

Phone Company	Outgoing Call Rate	Incoming Call Rate	Monthly Fee
Friendly Phone	6 cents a minute	25 cents a minute	\$3.95
Chatter	9.8 cents a minute	19.2 cents a minute	\$4.95
Phone A Lot	8.9 cents a minute	24 cents a minute	NONE

Decide which plan the family should select. Use the greater than, less than, and equal signs in your solution to help convince the family which plan costs the least. Which plan should the family select? Show all your mathematical thinking.

$$6 \times 400 = a$$

x	400	0	0
6	2400	0	0

$$400 \times 2 = 800 \text{ (2)}$$

$$800 + 800 = 1600 \text{ (4)}$$

$$1600 + 800 = 2400 \text{ (6)}$$

