

Talking About Phones

1. The Vega family has a cell phone plan that costs \$75 per month including taxes and fees. The plan lets the 5 members of the Vega family share 1,000 minutes of talk time per month and 400 text messages per month. Any minutes over 1,000 cost \$1 per minute, and any texts over 400 cost \$2 per text.

Because of a family emergency, the family uses 1,050 minutes and 415 texts in March. Write an expression you could use to find the amount of the Vega's cell phone bill for March. Evaluate the expression. Show your work.

The Vega's bill for March is _____.

2. Tomás Vega offers to pay \$59 of the March cell phone bill. Each of the other 4 members of the family agrees to split the rest of the bill equally among themselves. How much does each of the 4 family members owe? Show your work.

Each of the 4 family members owes _____.

3. The Vega family has a 3-year cell phone contract. Javier Vega says that the family gets a total of 3×10^4 minutes of talk time to share during the 3 years.

Is Javier correct? If yes, write an expression to show how Javier could have found his answer. If no, explain why Javier is incorrect. Write the correct number of minutes as the product of a whole number and a power of 10. Show your work.

4. In April, the Vega family gets 400 text messages included in their plan. Together, Tomás and Marisol use half of the messages. Javier and Sergio use 120 messages. Carmen uses the rest of the messages. Write and evaluate an expression to find the number of messages Carmen uses. Show your work.

Carmen uses _____ messages.