

Writing Equations

Ex. 1 Alex has decided to upgrade to digital cable. The cable company charges an installation fee of \$49.99 and a special monthly rate of \$53.99 for customers not wanting HD service. Write an equation to model the situation.

Using Alex's equation:

1) After a few months of service, he has paid a total of \$997.87. Determine how many months of service he has paid for.

2) How much would Alex pay for 15 months of service?

Ex. 2 Liza needs to order coffee for her coffee shop. She will pay \$5.95 a pound and \$12.75 for shipping and handling. Write an equation to model the situation.

Using Liza's equation:

1) The total for her order was \$250.75. How many pounds of coffee did Liza purchase?

2) How much will her bill be if she order 105 pounds of coffee?

Ex. 3 Aaron recently bought an iPhone for \$199. AT&T charges a monthly rate of \$74.99 for 3G service with the iPhone. Write an equation to model the situation.

Using Aaron's equation:

1) He has paid a total of \$498.96 so far this year. How many months has he had service?

2) How much would you pay for a year of service?