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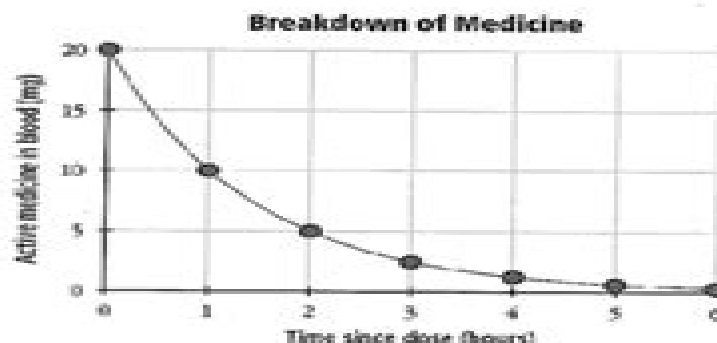
Unit 9: Quadratics

Lesson #7: Exploring Exponential Growth and Decay**Fighting Fleas**

After a dog or cat is given a preventive flea medicine, the medicine begins to break down in the animal's bloodstream. With each passing hour, there is less active medicine in the blood. The table and the graph show the amount of active medicine in a dog's bloodstream each hour for 6 hours after a 20-milligram dose.



Time since dose (hours)	Active medicine in blood (milligrams)
0	20
1	10
2	5
3	2.5
4	1.25
5	0.625
6	0.3125



Study the pattern of change in the graph and the table.

- A.** How does the amount of active medicine in the dog's blood change from one hour to the next?

- B.** Write an equation to model the relationship between the number of hours since the dose was administered, h , and the milligrams of active medicine, m .

- C.** Based on your knowledge of exponential relationships, what pattern would you expect to see in the data if 40 milligrams of the medicine were given to the dog?

Exponential Growth And Decay Worksheet Maze

Michael E. Foote

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Exponential Growth And Decay Worksheet Maze:

Decoding **Exponential Growth And Decay Worksheet Maze**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Exponential Growth And Decay Worksheet Maze**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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