



## A Tale of Two Frogs

### The Story of Hip Hop

Marty's frog Hip Hop jumped for several seconds. After measuring the time and distance, Marty wrote this equation:  $d = 5.4t$ . Using this equation, help Marty complete the table below.

<u>Time in seconds</u>	<u>Distance in centimeters</u>
10	_____
15	_____
18	_____
30	_____
—	270

1. Explain how the rate of 5.4 centimeters per second can be found using the data in the table.
2. Explain how the table demonstrates that the graph of this relationship would be a straight line.

### The Story of Frogger

Gisella's frog Frogger jumped for 20 seconds and reached a distance of 140 cm. Gisella created a table of values using Frogger's average jumping rate. Help her complete the table below.

<u>Time in seconds</u>	<u>Distance in centimeters</u>
20	140
40	280
50	_____
55	_____
—	420

3. What is Frogger's jumping rate in centimeters per second? Show the work done to determine this rate.
4. What equation would Gisella write for Frogger? \_\_\_\_\_