## Leve 1




## Level 1



## Level 1




## Lever 2

## Solve each problem and write the matching letter on the blank above the answer.

The value of a car is depreciating at a rate of $5 \%$ per year. In 2015, the car was worth $\$ 32,000$. Find the value of the car in 2018.

If the number of bacteria in a colony doubles every 25 hours and there is currently a population of 10,000 bacteria, what will the population be 75 hours from now?

The population of a town is decreasing at a rate of $\mathbf{2 . 2}$ \% per year. In 2001, the town had a population of 34,567 . Find the population of the town in 2018.

## R

The starting salary at a bank is $\$ 55,000$ and increases at a rate of $1.8 \%$ yearly. What would the salary be after 4 years?

A house is losing value at a rate of 5.4\% per year. In 2009, the house was worth $\$ 131,000$. Find the value of the house in 2019.

A recycling center currently processes 50,000 tons of scrap metal each year, and this amount is increasing by 5\% each year. How much metal will the plant be able to handle 8 years from now?

A city's population is increasing by 5\% every year, and there are currently 39,000 people. What will the population be in 2 years?

## L

A colony of 10,000 ants can increase by $15 \%$ in a month. How many ants will be in the colony after 1 year?

A new clothing line is quickly increasing in popularity. Every month, 10\% more items of clothing are sold. If 15,000 items were sold this month, how many will be sold 2 months from now?

## Level 3

## Use your answers to guide you to the end of the maze to make your escape.



