

# 4

## The Mathematics of Inflation & Depreciation

### 4.1 Exponential Growth

- ▶ Make a table showing exponential growth.
- ▶ Draw a graph showing exponential growth.
- ▶ Find an exponential growth rate.

### 4.2 Inflation & the Consumer Price Index

- ▶ Use a consumer price index.
- ▶ Use a graph to interpret a consumer price index.
- ▶ Compare inflation to the value of the dollar.

### 4.3 Exponential Decay

- ▶ Make a table and graph showing exponential decay.
- ▶ Calculate and use half-life.
- ▶ Find an exponential decay rate.

### 4.4 Depreciation

- ▶ Use straight-line depreciation.
- ▶ Use double declining-balance depreciation.
- ▶ Use sum of the years-digits depreciation.