No new vocabulary terms.

## rate

A comparison of quantities measured in two different units is called a rate. A rate can be thought of as a direct comparison of two sets ( 20 cookies for 5 children) or as an average amount ( 4 cookies per child). A rate such as 5.5 miles per hour can be written as 5.5 miles1hour, or 5.5 miles : 1 hour.

## rate table

A table that shows the value of a single item in terms of another item. It is used to show equivalent ratios of the two items.

## Movie Tickets

| Number of <br> people | 1 | 2 | 3 | 4 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Total Price | $\$ 12$ | $\$ 24$ | $\$ 36$ | $\$ 48$ | $\$ 60$ |

## constant of proportionality

The constant ratio of two proportional quantities, $x$ and $y$; usually written as $y=k x$, where $k$ is the constant of proportionality. For example, in the equation $y=34 x$, the constant of proportionality is 34 . The graph is shown below.


## unit rate

A unit rate is a rate in which the second number (usually written as the denominator) is 1 , or 1 of a quantity. For example, 1.9 children per family, 32 miles per gallon, and 3 flavors of ice cream1 banana split are unit rates. Unit rates are often found by scaling other rates.

