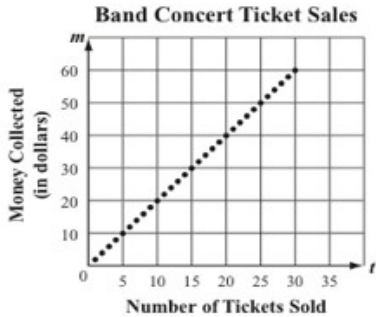
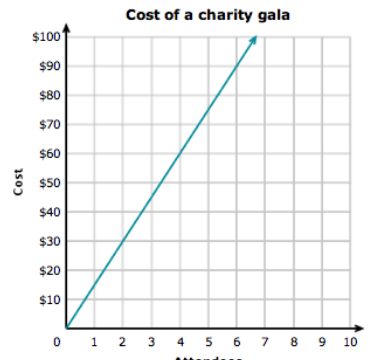
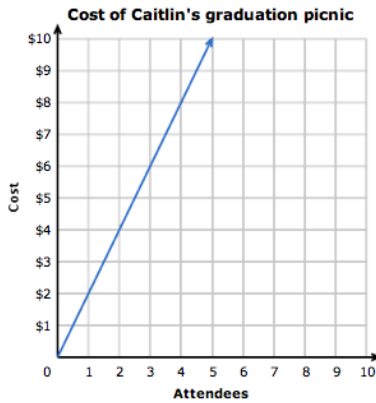
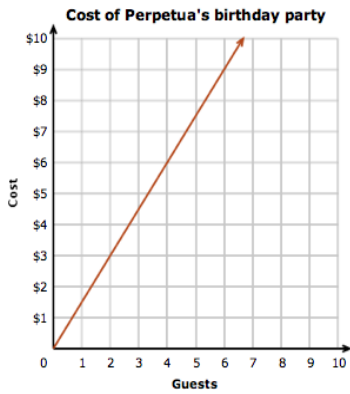


## Identifying Constant of Proportionality in Various Forms

Identify the constant of proportionality of each graph, table and words, then write the equation for each.

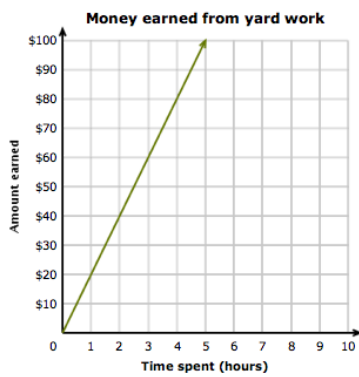
In Graphs	In Tables	In Words or Diagrams	Equation						
<p style="text-align: center;"><b>Band Concert Ticket Sales</b></p> 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Number of Weeks, <math>x</math></th> <th style="width: 50%;">Number of pieces learned, <math>y</math></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">16</td> </tr> <tr> <td style="text-align: center;">9</td> <td style="text-align: center;">18</td> </tr> </tbody> </table>	Number of Weeks, $x$	Number of pieces learned, $y$	8	16	9	18	<p>Haruki took a total of 12 quizzes over the course of 2 weeks. After a school vacation, he took 18 quizzes over the span of 3 weeks. How many quizzes does Haruki take per week?</p>	<p>Graph:</p> <p>Table:</p> <p>Words:</p>
Number of Weeks, $x$	Number of pieces learned, $y$								
8	16								
9	18								
<p style="text-align: center;"><b>Cost of a charity gala</b></p> 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Time in class, <math>x</math></th> <th style="width: 50%;">Number of pages, <math>y</math></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">10</td> </tr> </tbody> </table>	Time in class, $x$	Number of pages, $y$	4	8	5	10	<p>Amalia took a total of 12 pages of notes during 4 hours of class. Then, later in the year, she took 15 pages of notes during 5 hours of class. How many pages of notes does Amalia take during an hour of class?</p>	<p>Graph:</p> <p>Table:</p> <p>Words:</p>
Time in class, $x$	Number of pages, $y$								
4	8								
5	10								
<p style="text-align: center;"><b>Cost of Caitlin's graduation picnic</b></p> 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Days of vacation, <math>x</math></th> <th style="width: 50%;">Number of postcards bought, <math>y</math></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">15</td> </tr> </tbody> </table>	Days of vacation, $x$	Number of postcards bought, $y$	2	6	5	15	<p>Rauf walked a total of 12.5 kilometers by making 5 trips to school. Later on, he walked 15 kilometers during 6 trips. How many kilometers does Rauf walk per trip?</p>	<p>Graph:</p> <p>Table:</p> <p>Words:</p>
Days of vacation, $x$	Number of postcards bought, $y$								
2	6								
5	15								



Number of seed packets, x	Total number of plants, y
2	5
4	10

Poorna wrote a total of 3 pages over 5 hours. A few days later, she wrote 9 pages over the course of 15 hours. How many pages does Poorna write per hour?

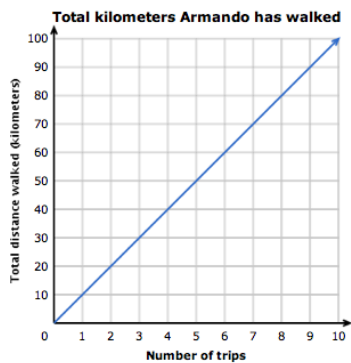
Graph:  
Table:  
Words:



Number of snacks, x	Number of calories, y
2	52
3	78

Claire earned a total of \$10 for 2 hours of yard work. Then, later in the year, she earned \$15 for 3 hours. How much money does Claire earn per hour?

Graph:  
Table:  
Words:



Guests, x	Cost, y
3	\$3.18
7	\$7.42

Ruth baked 12 cookies with 2 scoops of flour. Another day, she baked 18 more cookies with 3 scoops of flour. How many cookies can be made with one scoop of flour?

Graph:  
Table:  
Words: