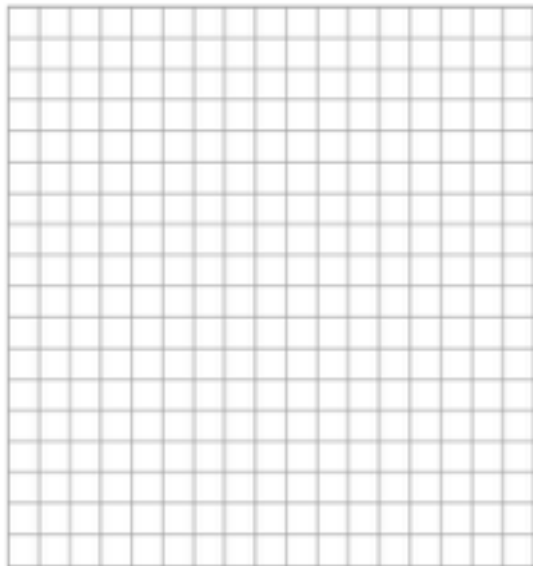


### Proportional Relationship Worksheet

1) The cost of 3 tickets to the concert is \$27.

- i) What is the constant of proportionality in cost per ticket?
- ii) Make a table show the total cost,  $c$ , of  $x$  tickets.
- iii) Write an equation to show the total cost,  $c$ , based on purchasing  $x$  tickets.
- iv) Graph the equation

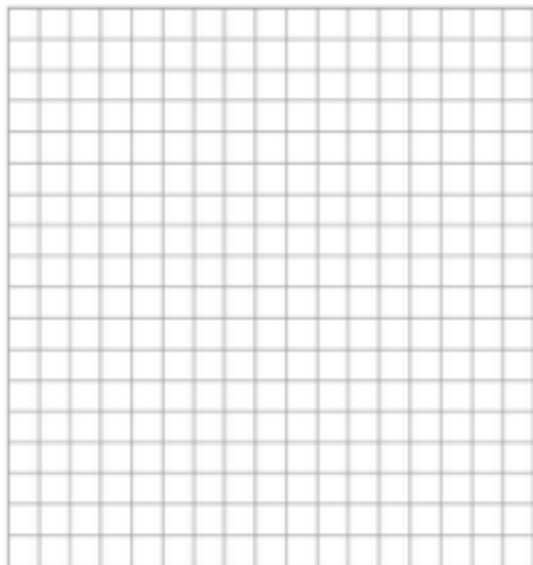
Number of Tickets ( $x$ )	Constant of Proportionality ( $m$ )	Total Cost ( $c$ )
0		
1		
2		
3		
4		
$x$		



2) Brooke earned \$34 for 4 hours of work.

- i) How much does she earn per hour?
- ii) Make a table showing her total wages,  $w$ , for  $h$  hours of work.
- iii) Write an equation to showing her total wages,  $w$ , for  $h$  hours of work.
- iv) Graph the equation

Number of Hours ( $h$ )	Constant of Proportionality ( $m$ )	Total Wages ( $w$ )
0		
1		
2		
3		
4		
$h$		



**Directions: Use a table to help determine each equation.**

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3) A bucket was placed under a water leak in a ceiling. In half an hour the bucket was  $\frac{1}{5}$  of the way full. Write an equation that represents the number of buckets filled,  $y$ , in  $x$  hours.

4) The job paid \$25 for every 2 hours of work. Write an equation that represents how much the job pays,  $y$ , for  $x$  hours of work.

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5) Besian bought 6 ice cream cakes for \$48 dollars. Write an equation that represents the total cost,  $y$ , of  $x$  ice cream cakes.

6) A store is selling video games for  $p$  dollars per video game. Write an equation that represents the total amount,  $y$ , for purchasing  $x$  video games.

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7) CJ was painting his apartment. In 15 minutes, CJ had used  $\frac{1}{3}$  gallon of paint. Write an equation that represents the gallons of paint used,  $y$ , in  $x$  hours.

8) Dom made Halloween cookies for her awesome homeroom. For every  $\frac{2}{3}$  cup of flour, she made 2 dozen cookies. Write an equation that represents the cookies,  $y$ , for  $x$  cups of flour.

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