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Name:	Class:	

Find a value using two-variable equations - word problems

1. A car factory manufactures 110 new cars each month. Let **m** represent the number of months and **c** represent the total number of cars produced. Find the value of c when m=3. 2. There are 52 weeks in a year. Let y represent the number of years and w represent the number of weeks. Find the value of **w** when **y=5**. 3. A jar of Iollipops has 3 less red Iollipops than blue Iollipops. Let b represent the number of blue lollipops in the jar and **r** represent the total number of lollipops in the same iar. Find the value of **b** when there are **15** Iollipops in the jar. 4. During Halloween, a candy shop made a whopping \$782,594 since they had received a lot of customers that day. Let n represent the candies each customer bought, and c represents the total number of customers who bought candies. Find the value of n when c = 206 assuming that all the customers bought an equal number of candies. 5. A construction company has 25 permanent employees. The company manager always hires temporary employees when there is too much work. Let e represent the number of temporary employees and t represent the total number of employees. Find the value of t when e = 11. 6. To perform very well in her final exams, Cynthia takes 3 hours of extra lessons each day on some of her subjects.

Let d represent the number of days and h represent the number of hours. Find the value of h when d = 21.





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A car factory manufactures 110 new cars each month. Let **m** represent the number of 1. months and **c** represent the total number of cars produced. Find the value of c when m=3. In this relationship, m=3 and denotes the input while c c = 110 . m → c = 110 . 3 denotes the output. So you can find c by multiplying 110 by m c = 330 So, when m=3, c=330. So, when y=5, w=260. 2. So, when r = 15, b = 12. 3. So, when c = 206, n = 3,799. 4. So, when e = 11, t = 36. 5. So, when d = 21, h = 63. 6.