

Name: Class:

Find a value using two-variable equations - word problems

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. 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. A jar of lollipops has 3 less red lollipops than blue lollipops. Let b represent the 3. number of blue lollipops in the jar and r represent the total number of lollipops in the same jar. Find the value of **b** when there are **15** lollipops in the jar.





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Solve word problems by finding two-variable equations

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. In this relationship, m=3 and denotes the input while c c = 110 . m C = 110 . 3 denotes the output. c = 330 So you can find c by multiplying 110 by m So when m=3, c=330 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. In this relationship, y=5 and denotes the input while w $w = 52 \cdot y$ w = 52.5 denotes the output. w = 260 So you can find w by multiplying 52 by y So when y=5, w=260 3. A jar of lollipops has 3 less red lollipops than blue lollipops. Let b represent the number of blue lollipops in the jar and r represent the total number of lollipops in the same jar. Find the value of **b** when there are **15** lollipops in the jar. In this relationship, r = 15 and denotes the input while b b = r - 3▶ b = 15 - 3 denotes the output. b = 12 So you can find b by subtracting 3 from r. So when r = 15, b = 12

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