1. You employ several people in the office who do both sales and other jobs such as inventory, sorting tile, ordering, etc. Office staff pay is based on a combination of a monthly salary and sales commissions. There are two options to choose from. Use the following variables for this problem.

s = sales ($)

P = total pay ($)

* 1. Doug earns a $500/month plus 14% commission on sales. Write an equation for Doug’s pay.
  2. Maria earns $720/month plus 5% commission on sales. Write an equation for Maria’s pay.

1. Open the Excel spreadsheet *Tiling with Equations*. Put in formulas to calculate the pay for Doug and Maria each month. [Hint: Remember that formulas can be copied into multiple cells using “drag and click” or “copy and paste”.]
   1. Find an amount of sales for which Doug and Maria earn the same amount. Show your work or explain how you arrived at your answer.
   2. Is this the only value for the sales which for which Doug and Maria earn the same amount? Explain your answer.
   3. For the first six months of the year, did Doug and Maria choose the best option for their pay? Explain how you arrived at your answer. Use the back of this page.