

Be sure to show all of your work and label your answer. Do your best thinking!

**1** When two numbers are added, the sum is 27.  
One of the numbers is half of the other.  
What are the two numbers?

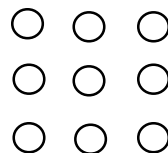
$$\square + \square = 27$$

**2** John's house is 2 kilometers from Daniel's house. Daniel's house is 3.5 kilometers from Shelby's house. The houses are in a straight line from each other.

How far apart are John's house and Shelby's house?

**3** If you have 3 hats (red, blue, yellow) and 3 jackets (orange, green, plaid), how many different combinations of a hat and jacket can you wear?

**4** How can you connect the 9 circles with 4 straight lines?  
You may not lift your pencil off the paper.



**5** This balance scale has 5 gram and 2 gram weights on it.  
How can you rearrange the weights so that the scale balances?

