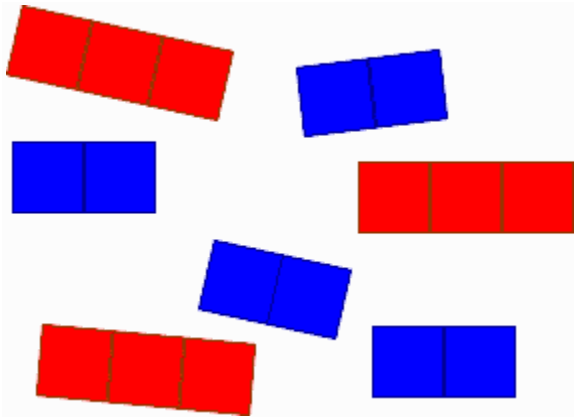


Making Sticks HW 1

Kimie and Sebastian were making sticks from interlocking cubes. Kimie made blue sticks two cubes long. Sebastian made red sticks three cubes long. They both made a lot of sticks.



Kimie put her blue sticks end to end in a long line. Sebastian put his red sticks end to end in a line underneath Kimie's.

1. What are the different lengths that Kimie can make using only her blue sticks? **Kimie can make 2,4,6,8. What do you notice? I noticed all the NO. are even and they all are multiples of 2 .**
2. What are different lengths that Sebastian can make using only his red sticks? He can make 3,6,9. What do you notice?**I noticed that they are multiples of 3.**
3. Can they make their lines the same length? **yes .** How many sticks could Kimie use ? **She would use 3.** How many would Sebastian put down? **He would use 2.** How long is the line altogether? **6 cubes**
4. Can they make any other same lines using only blue sticks or only red sticks ? **No unless we have unlimited sticks.**

What do you notice? **I noticed that if you have unlimited sticks, you can make more similar lengths.**

5. What lengths can we make using 2 and 3 together? **We can make 5,7,8 etc.**

6. Explain your findings. Kimie's stick can only make even numbers because all the multiples of 2 are even. There is a pattern in sebastian's sticks, it is odd-even-odd-even. They can make the lines the same lengths because when you multiply 2×3 you get 6.