Rod Trains

Level B

You have 10 different rods, each a different color and a different length. A rod train can be made with different sizes of rods. A rod train with a red rod first and a purple rod second is different from a purple rod first and a red rod second. Which color rod is the same length as a red rod next to a purple rod? What is the length of that rod if the white rods are equal to 1 unit?

How long is the brown rod?

Suppose you put two smaller rods together to make a rod train the same length as the brown rod. How many different ways (order matters) can you put two rods together and make it the same length as the brown?

Explain how you figured it out.

Write an addition number sentence for each of the combinations that you found.

What do you notice from the number sentences? Explain.

Cuisenaire Rods