

Sharing Fancy Ribbon

Sarah bought three yards of fancy ribbon and decided to share it with some of her friends.

First, she cut the ribbon in half and kept one-half of it for herself.

From the half she shared, Sarah cut off one-third and gave it to Julie.

Then she cut the ribbon again and gave Grace two-thirds of what was left.

She kept the final piece that was leftover for herself.

How long are the pieces of ribbon that Julie and Grace received in feet?

If Sarah concatenated - put her two pieces together end to end, what is the total length of the ribbon Sarah has in feet?