

MATH 5010 – Quiz

Name:

1.7c In how many ways can 3 boys and 3 girls sit in a row if the boys must sit together?

There are $3!$ ways to arrange the boys amongst themselves, and $3!$ ways to arrange the girls amongst themselves. The only thing left to choose is how many girls will sit to the left of the group of boys. There are 4 options — 0, 1, 2, or 3.

$$3!3!4$$