

THE HAMSTER CAGE PROBLEM

Our class has five hamsters. There are two cages connected by a tube.

The **nest cage** has food, water, and nests.

The **play cage** has ramps and a running wheel.

In the morning, there are five hamsters in the nest cage and zero hamsters in the play cage. As the hamsters wake up, they eat and then go play. First, one hamster is playing. Then two hamsters. Then three hamsters. Eventually, all the hamsters are awake and playing.

Describe the pattern.

How many hamsters could be in each cage?

