# Breakout Room Discussion of Session 3 Exercises

In each of your groups, you’ll be discussing the Session 3 exercise questions.

First, decide which roles each group member will fill:

## Roles:

**Moderator** - helps facilitate the conversation and encourages equitable participation

**Timekeeper** - keeps the group on track

**Note Taker** - takes record of the group’s discussion in this Google doc (see below).

**Active Participant** –engages and contributes to the discussion.

**Reporter** - presents the group’s solution to the whole class when we regroup.

## Before you begin to answer the exercise questions:

1. Introduce yourselves briefly.
2. Assign roles and record them below. Try to take a different role than last time.
3. Discuss the question(s) assigned to your group and note your answer.
4. Next, discuss other questions from Session 3. You won’t need to present these to the class but can use this time to compare answers to the other Session 3 questions.

##

## Breakout Room (n=5 per room)

|  |  |
| --- | --- |
| **Breakout Room** | **Assigned Exercise Questions (see next page)** |
| **1** | **1** |
| **2** | **2** |
| **3** | **3** |
| **4** | **4** |
| **5** | **5**  |
| **6** | **6**  |
| **7** | **1** |
| **8** | **2** |
| **9** | **3** |
| **10** | **4** |
| **11** | **5** |
| **12** | **6** |

Roles:

* Moderator -
* Timekeeper -
* Note Taker -
* Reporter -
* Active Participant -

Question(s) discussed:

Solution to assigned question:

Any question you want the whole class to discuss/answer?

A different question discussed:

Notes:

**Session 3 Exercises**

*Recall, carrier=Aa with Pr(Aa) = ½*

*unaffected=AA with Pr(AA) = ¼*

*affected=aa with Pr(aa) = ¼*

1: What is the probability that all three offspring will be carriers?

2: What is the probability that exactly two offspring will be carriers?

*Google “cdf normal distribution calculator” and find the following if Z ~ N(0,1):*

3. P(Z ≤ 1.65) =

4. P(Z ≥ 0.5) =

5. P(-1.96 ≤ Z ≤ 1.96) =

6. P(-0.5 ≤ Z ≤ 2.0) =