MA22004: Age Guessing

The following **experiential learning opportunity** explores data collection, visualisation, and the concepts of bias and variation in estimation. In this activity, you will work in a small group to estimate the ages of people in photos.

1 Overview

You have been assigned to work in a small group. Please be respectful by participating in the activity and completing the tasks.

Ten cards (numbered 1 through 10) display a photo of a person unknown to you. These cards will be passed around from group to group.

2 Tasks

2.1 Introductions

Please start with introductions. Share your name, course, home town, and whether you think you are particularly good at estimating people's age.

2.2 Estimation

A photo captures a moment in time. For the people in each photo, we denote the **true age** (in years) at the time the photo was taken by a. This value exists, however, it will not be revealed to you until the end of the activity. Your group will **estimate** the age (in years) of each person at the time the photo was taken. We denote estimates of unknows with hats: $\hat{a}$. The **error** between your estimate and the true age is calculated as the difference $\hat{a} - a$.

For each card:

- Estimate the age of the person in the photo in whole years; your group must come up with a **single estimate**.
- Record your estimate in the attached table.

2.3 Discussion

After completing the estimate column in the table, please discuss and note your group's strategy for the estimation problem. Can you summarise how you came to a collective decision?

Please select one individual to report your group's estimates for our class demo.

Filehistory Dr Eric Hall (ehall001@dundee.ac.uk), last updated: 23 Aug 2023, commit version: 1ce1e94372.

Group:

Card	Estimate, $\widehat{a}$	True, a	Error, $\widehat{a} - a$
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			