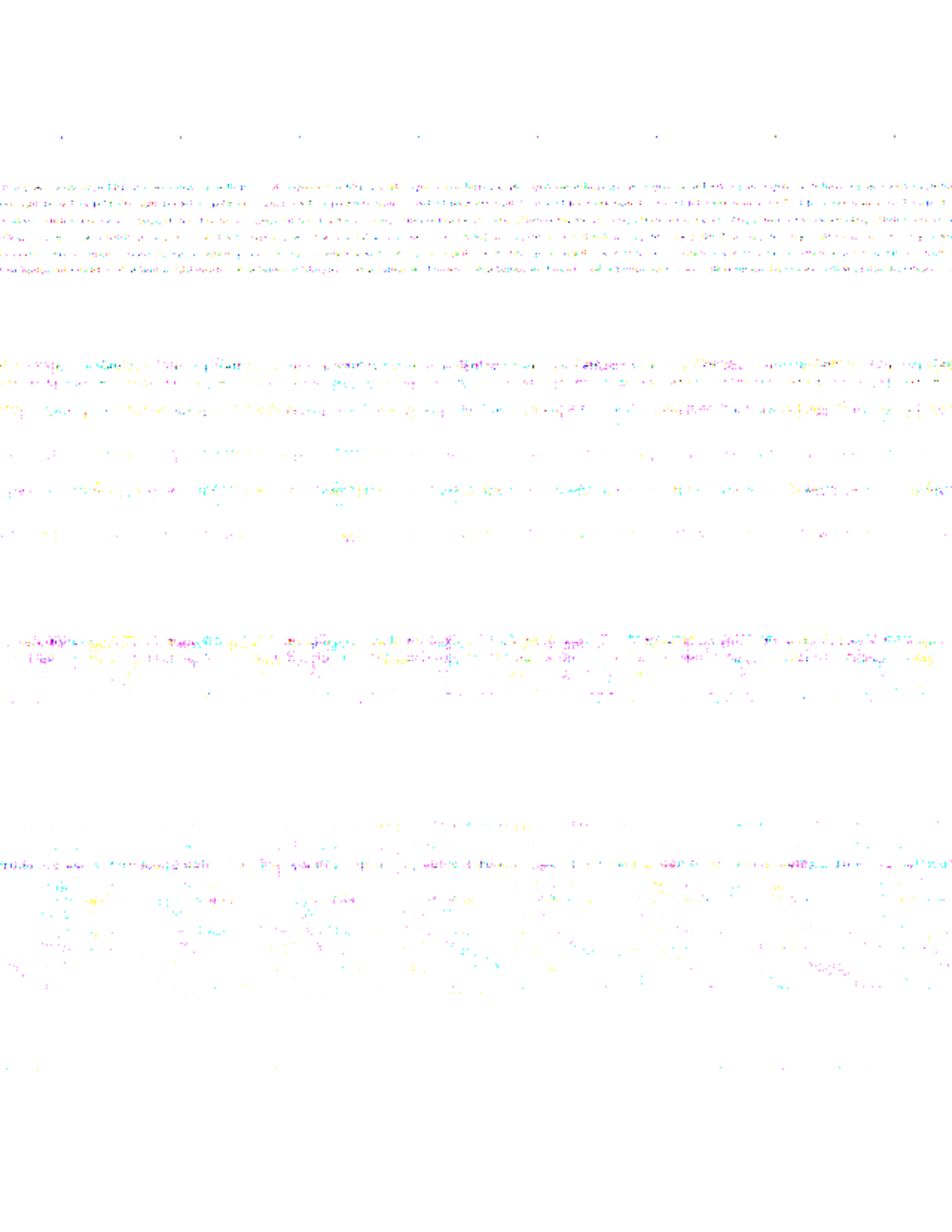
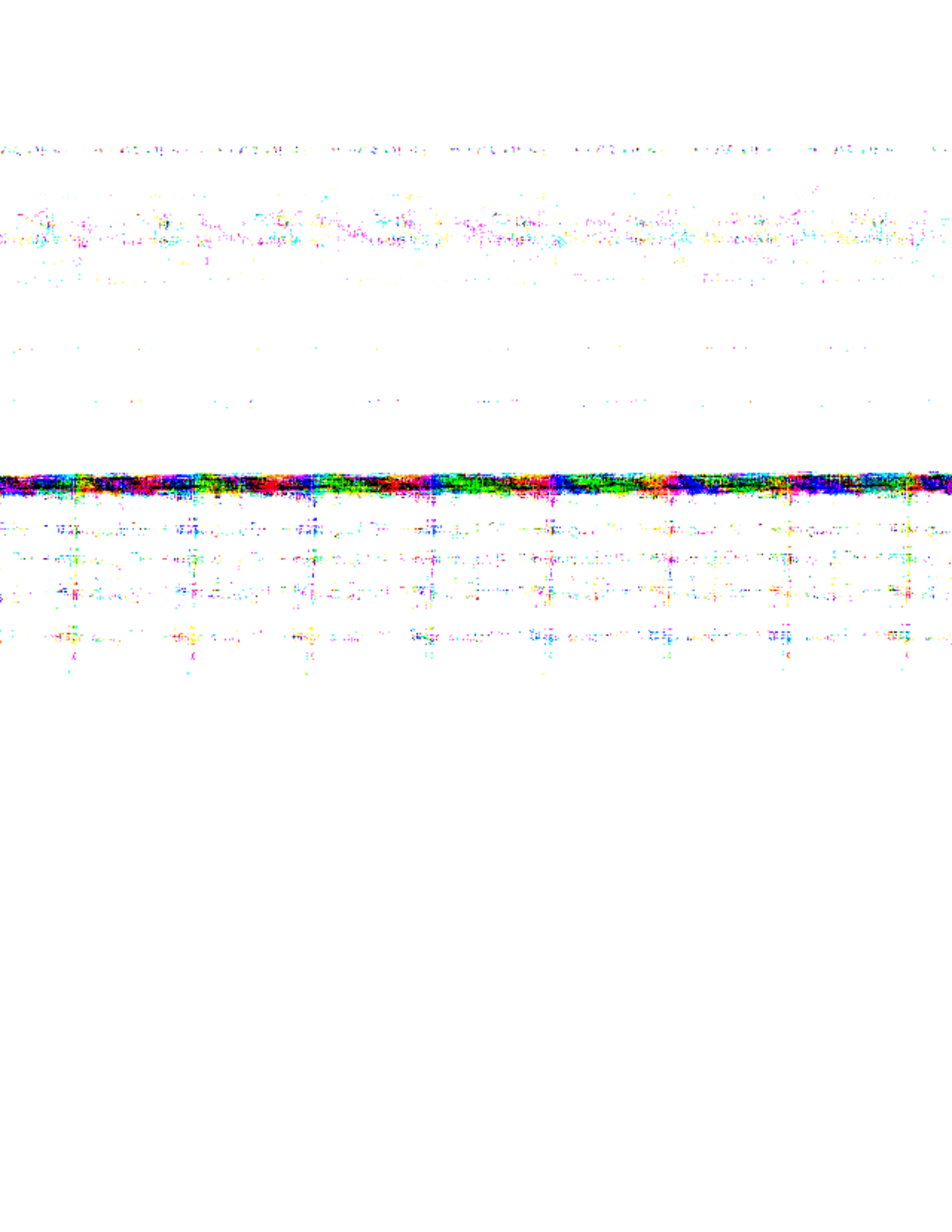






1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 2. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 3. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 4. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 5. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 6. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 7. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 8. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 9. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ 10. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

The following table shows the results of the regression analysis for the dependent variable "Number of children in the household" (N = 1,000). The independent variables are "Age of the head of household" and "Gender of the head of household". The results are presented in the following table:

[illegible]

Unit	Topic	Learning Objectives	Assessment	Resources	Notes
Unit 1	Introduction to the course	Understand the course structure and objectives	Self-reflection	Course syllabus	
Unit 2	Mathematical Induction	Prove statements using mathematical induction	Assignment	Textbook	
Unit 3	Set Theory	Understand set operations and properties	Quiz	Lecture notes	
Unit 4	Logic	Analyze logical statements and arguments	Assignment	Textbook	
Unit 5	Combinatorics	Calculate combinations and permutations	Assignment	Textbook	
Unit 6	Probability	Calculate probabilities for various events	Quiz	Lecture notes	
Unit 7	Statistics	Analyze data and calculate statistical measures	Assignment	Textbook	
Unit 8	Discrete Mathematics	Understand graph theory and combinatorics	Assignment	Textbook	
Unit 9	Algebra	Solve algebraic equations and inequalities	Quiz	Lecture notes	
Unit 10	Calculus	Calculate derivatives and integrals	Assignment	Textbook	