

Problem 2. The following table shows the crashworthiness ratings for 10 small SUVs. (3 = Good, 2 = Acceptable, 1 = Marginal, 0 = Poor)

Frontal Crash Test Rating	3	2	1	0
Frequency	1	4	4	1

- a) Find the relative frequency distribution for the experiment of choosing a small SUV at random and determining its frontal crash rating.

- b) What is the relative frequency that a randomly selected small SUV will have a crash test rating of "Acceptable" or better?

Problem 3. The following table shows the result of a survey of 100 authors by a publishing company.

	New Authors	Established Authors	Total
Successful	5	25	30
Unsuccessful	15	55	70
Total	20	80	100

Compute the relative frequencies of the given events if an author as specified is chosen at random.

- a) An author is established and successful.

- b) An author is a new author.

- c) An author is unsuccessful.

- d) A successful author is established.

- e) An established author is successful.