

Determine if the events are independent.

1. Events A and B. $P(A) = 0.2$ $P(B) = 0.4$ $P(A \text{ and } B) = 0.6$

2. Events C and D. $P(C) = 5/8$ $P(D) = 3/8$ $P(C \text{ and } D) = 15/64$

3. Events: Studying and Scoring 90 or higher.

	Score ≥ 90	Score < 90
Studied	12	3
Did Not Study	1	14

4. Events: Being in the 12th grade and Doing Community Service

	Does Community Service (C)	No Community Service (N)	Total
11th Grade (E)	24	12	36
12th Grade (T)	16	8	24
Total	40	20	60

5. Events: Being in the 10th grade and Preferring Dogs

	Dogs	Cats	Total
9th Grade	20	5	25
10th Grade	16	4	20
11th Grade	22	6	28
12th Grade	30	7	37
Total	88	22	110

6. Events: Being a Boy and Being a Stage Crew Member

	Performer	Stage Crew
Boys	14	18
Girls	21	7