

### QUESTION

The following table shows the results of a survey of 1000 people in a city. The table shows the number of people who use each mode of transport to get to work, and the number of people who use each mode of transport to get to school. The table also shows the number of people who use each mode of transport to get to work and to school.

Mode of Transport	To Work	To School	To Work and School
Car	400	100	100
Bus	300	200	100
Bicycle	200	100	50
Walking	100	100	50

What is the probability that a person who uses a car to get to work also uses a car to get to school?

Options:

- A. 0.1
- B. 0.2
- C. 0.3
- D. 0.4

### ANSWER



The probability that a person who uses a car to get to work also uses a car to get to school is the number of people who use a car to get to work and to school, divided by the number of people who use a car to get to work.

$$\frac{100}{400} = 0.25$$