|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Fred’s Surfboard Shop makes surfboards by hand. The number of surfboards that Fred makes during a week depends on the wave conditions. Fred has estimated the following probabilities for surfboard production for the next week.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number of Surfboards | 5 | 6 | 7 | 8 | 9 | 10 |
| Probability | 0.13 | 0.22 | 0.3 | 0.1 | 0.15 | 0.1 |

Let event A be that Fred produces more than six surfboards. Let event B be that Fred produces less than eight surfboards. Which of the following statements is true?  |
| Question 1 answers

|  |  |  |
| --- | --- | --- |
|  | a. | P(A and B) = 0  |
|  | b. | P(A) = P(B)  |
|  | c. | P(A or B) = P(A) + P(B)  |

 |