**Chapter 4**  
Using Probability and Probability Distributions  
  
*This activity contains 14 questions.*

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| http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif | |  |  | | --- | --- | |  | Question 1. **Which of the following is not one of the common ways to assign probability to events?** | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/problem_type_1.gif [Open Hint for Question 1 in a new window.](http://wps.prenhall.com/bp_groebner_busstats_7/64/16434/4207348.cw/hint/1/index.html) | |  | |  |  | | --- | --- | |  | Classical probability assessment | |  | Mutual response assessment | |  | Relative frequency of occurrence | |  | Subjective probability assessment | | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif |
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| http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif | |  |  | | --- | --- | |  | Question 4. **All possible elementary events associated with an experiment form** | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/problem_type_4.gif [Open Hint for Question 4 in a new window.](http://wps.prenhall.com/bp_groebner_busstats_7/64/16434/4207351.cw/hint/4/index.html) | |  | |  |  | | --- | --- | |  | the absolute event. | |  | the experiment. | |  | the probability rule. | |  | the sample space. | | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif |
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| http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif | |  |  | | --- | --- | |  | Question 7. **Use Table 4-4 from the Text to determine the probability of either watching 1 to 2 movies or being over 50.** | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/problem_type_7.gif [Open Hint for Question 7 in a new window.](http://wps.prenhall.com/bp_groebner_busstats_7/64/16434/4207354.cw/hint/7/index.html) | |  | |  |  | | --- | --- | |  | 0.20 | |  | 0.30 | |  | 0.40 | |  | 0.50 | | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif |
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| http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif | |  |  | | --- | --- | |  | Question 9. **A car rental company has 23 American cars and 17 foreign cars. What is the probability of selecting two different cars at random and both being American?** | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/problem_type_9.gif [Open Hint for Question 9 in a new window.](http://wps.prenhall.com/bp_groebner_busstats_7/64/16434/4207356.cw/hint/9/index.html) | |  | |  |  | | --- | --- | |  | 0.324 | |  | 0.331 | |  | 0.564 | |  | 0.575 | | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif |
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| http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif | |  |  | | --- | --- | |  | Question 10. **A man wants to rent a car from a rental company that has 23 American cars and 17 foreign cars. Then a week later he is going to rent another one. What is the probability that both are American?** | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/problem_type_10.gif [Open Hint for Question 10 in a new window.](http://wps.prenhall.com/bp_groebner_busstats_7/64/16434/4207357.cw/hint/10/index.html) | |  | |  |  | | --- | --- | |  | 0.324 | |  | 0.331 | |  | 0.564 | |  | 0.575 | | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif |
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| http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif | |  |  | | --- | --- | |  | Question 11. **A salesman makes 55% of his presentations to males and 45% to females. He found that he can close 80% of presentations made to males and 65% made to females. If he closes on a sale, what is the probability the presentation was made to a male?** | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/problem_type_11.gif [Open Hint for Question 11 in a new window.](http://wps.prenhall.com/bp_groebner_busstats_7/64/16434/4207358.cw/hint/11/index.html) | |  | |  |  | | --- | --- | |  | 0.550 | |  | 0.561 | |  | 0.601 | |  | 0.650 | | | http://wps.prenhall.com/wps/media/styles/1480/_skins_/D/default_blue/pixel.gif |
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