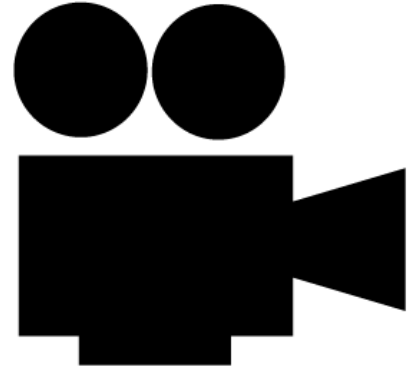


The Expected Value of Random Variable -Independent Practice Worksheet

Complete all the problems.



- 1. An experiment consists of spinning a spinner on a wheel with slots labeled 1 through 6. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 2. A hundred tickets are sold for a movie at the cost of \$10 each. Some tickets have cash prizes as a part of promotional campaign. One prize of \$ 50, three prizes of \$ 25, and five prizes of \$20. What is the expected value if you buy 1 ticket?**
- 3. An experiment consists of flipping a single coin with sides labeled 1 and 2. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 4. An experiment consists of rolling a single dice. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 5. An experiment consists of pulling spade cards out of a deck. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 6. An experiment consists of removing ace cards out of a deck. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 7. An experiment consists of spinning a 5 sector spinner with sections labeled 1 through 5. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 8. An experiment consists of playing heart cards from a standard deck of cards. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 9. An experiment consists of playing queen cards from a standard deck of cards. Let the random variable X be the number that turns up. What is the expected value of X ?**
- 10. An experiment consists of randomly picking from 10 straws labeled 1 through 10 in bundle. Let the random variable X be the number that turns up. What is the expected value of X ?**

