Name _____

Date _____

The Expected Value of Random Variable - Matching Worksheet Match the word problems to their answers. Write the letter of the answer			
	itches the problem.		
	1. An alphabet wheel has 26 equally likely spaced slots numbered A to Z. Rusty bets \$ 1 on one of the numbers and wins \$ 20. You earn \$20 if it lands on your letter, otherwise you lose your bet. The random variable X assigns \$20 to the wheel landing on letter chosen and -\$1 to having the wheel land on any other letter. What is expected value of alphabet on wheel?	а.	2.5
	2. An experiment consists of playing club cards from a deck of cards. The random variable X will be the card that turns up. What is the expected value of X?	b.	-0.19
	3. An experiment consists of choosing 1 of 7 cookies in packet at random. Let the random variable X be the cookie that turns up. What is the expected value of X?	C.	3.5
	4. An experiment consists of choosing 1 of 6 candles in a box at random. Let the random variable X be the candle number that turns up. What is the expected value of X?	d.	3.78
	5. An experiment consists of randomly removing jacks from a standard deck of cards. The random variable X will be the card that turns up. What is the expected value of X?	e.	4
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