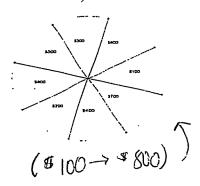
Name	Date	 Period	

Expected Value Practice Worksheet

1. Find the Expected Value from the table:

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Outcome Value	400	-800	
Probability	4/7	3/7	

2. What is the expected value of spinning the wheel to the right once?



3. In a board game, players take turns spinning a wheel with 4 spaces and values of \$100, \$300, \$400, \$800. The probability of landing on \$100 is 4/9. The probability of landing on \$300 is 2/9. The probability of landing on \$400 is 2/9. The probability of landing on \$800 is 1/9. What is the expected value of spinning the wheel once?

4. In question 3, what is the expected value of spinning the wheel 5 times?

5. In a game, 2 players each flip a coin. I f both land on heads, player A gets 2 points and player B loses 1 points. If both land on tails, player B gets 2 points and player A loses 1 point. Find the expected value of the game for each player.

6	In basketball, you can earn 3 points for a shot and 1 point for a free throw. If Sam's probability of getting a 3-point shot is 4/10 and 8/10 for a free throw, what is his expected value for the game?
7	At a raffle, 25 tickets are sold at \$1 each for 3 prizes of \$100, \$50, and \$10. You buy 1 ticket. What is the expected value of your gain?
8	. What is the expected value of rolling a die that has 6 sides?
	On Jeopardy there are 5 monetary categories-\$100, \$200, \$300, \$400, and \$500. Each of them has an equally likely chance of popping up. What is their expected value?
	0. At a fundraiser, 8000 tickets are sold at \$10 each for four prizes: a new car worth \$30,000, a European vacation worth \$9000, a home theater system worth \$4000, and a cash prize of \$1000. You buy 1 ticket. What is the expected value of your gain?

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