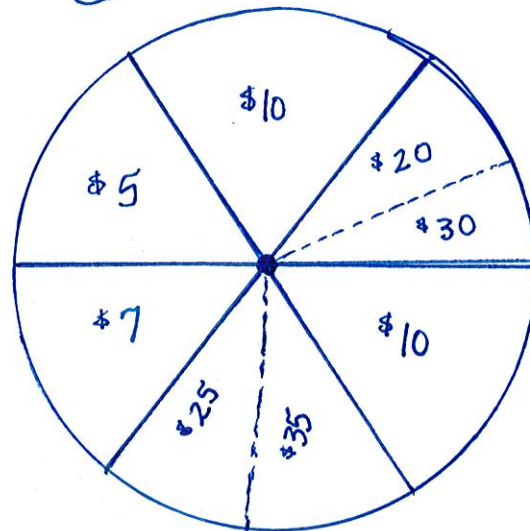# Act. #55   Expected Value

1. Assume a dart is randomly thrown at the following dart board and that it strikes the board each time. The payoffs are on the board. It cost $1 to play the game and you play 5 times.

	$7	$10	$3
$1			
		$2	

A) What is the expected value of the game? _____

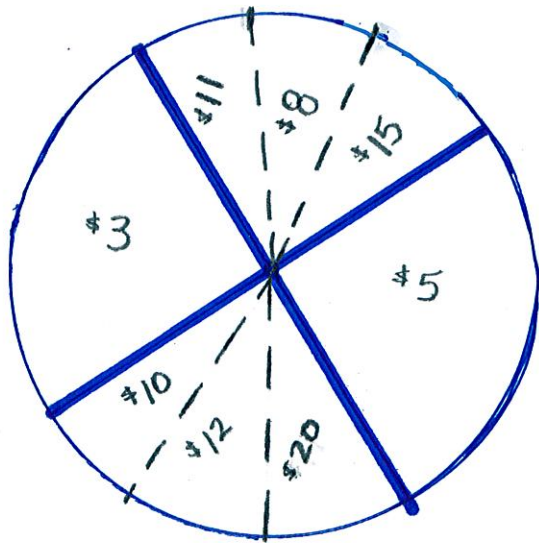**B)** What is the expected value if you play 5 games? _____

2.

This spinner circle game is divided into 6 equal sectors. Two of the sectors are divided in half by a dotted line. If this games cost $20 to play, what is the expected value of playing the game 6 times?

3. Assume a dart is randomly thrown at the following dart board and that it strikes the board each time. The payoffs are listed on the board. Find the expected value of the game *if played 8 times.*

	$8.00
$10.00	
	$3.00 $4.00
	$2.00

4.

This spinner circle game is divided into 4 equal parts with two of them being divided into 3 equal parts shown by the perforated lines. If this were a game that costs $10 to play, what is the expected value of playing 8 times?