Student Name:

Gambling has been institutionalized in human civilizations through ages. As such, the human race has a natural propensity to gambling. Suppose that you will gamble one out of four times! Now, suppose that you come across a situation where you have the option to walk away with \$20 or partake in a gamble. The gamble may yield \$50 with a 40% chance or \$10 with 60% chance.

Under this circumstance, what is the expected money you will make?

Chamble + 25% chance
Hence, not gamble - 75% chance

$$EV_{gamble} = 50 \times .4 + 10 \times .6$$

= 20 + 6 = 26

Total expected value =
$$26 \times 0.25 + 20 \times 0.75$$

= $6.5 + 15$

Therefore, the expected money to be made in \$21.50