

## Answer on Question #79280 – Math – Statistics and Probability

### Question

Determine the expected count for each outcome.

$$n = 429$$

$i$  1 2 3 4

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$$p_i \quad 0.14 \quad 0.33 \quad 0.18 \quad 0.35$$

The expected count for outcome 1 is \_\_\_\_\_  
(Round to two decimal places as needed)

### Solution

The expected outcome is  $np_i$ . We have:

$$np_1 = 429 \cdot 0.14 = 60.06$$

$$np_2 = 429 \cdot 0.33 = 141.57$$

$$np_3 = 429 \cdot 0.18 = 77.22$$

$$np_4 = 429 \cdot 0.35 = 150.15$$

### Answer:

The expected count for outcome 1 is 60.06.

The expected count for outcome 2 is 141.57.

The expected count for outcome 3 is 77.22.

The expected count for outcome 4 is 150.15.