Practice worksheet | Probability

Experimental versus theoretical results

Name: _____ Date: _____

6 questions | 14 marks

1. An event occurs 18 times in 30 trials. Find relative frequency. [2 marks]

2. For $P(\text{win}) = \frac{1}{4}$, find expected wins in 240 trials. [2 marks]

3. A fair die gives 51 sixes in 240 rolls. State experimental and theoretical probabilities. [3 marks]

4. There are 23 successes in 80 trials, then 37 in 120 more. Find combined relative frequency. [3 marks]

5. Using an estimated probability 0.38, predict successes in 300 trials. [2 marks]

6. Why are exactly 10 heads not guaranteed in 20 fair tosses? [2 marks]