Practice worksheet | Probability

Theoretical and relative-frequency estimates

Name: _____ Date: _____

6 questions | 12 marks

1. An event occurs 16 times in 80 trials. Find its relative frequency. [1 mark]

2. An equal four-section spinner has one red section. Find $P(\text{red})$. [1 mark]

3. Using probability $\frac{1}{4}$, predict the number of reds in 240 spins. [2 marks]

4. A game is won 21 times in 70 plays. Estimate the wins in another 150 similar plays. [2 marks]

5. A fair coin gives 14 heads in 20 tosses. Does this prove bias? Explain. [3 marks]

6. A spinner gives green 60 times in 200 spins and 84 times in another 300. Find the combined relative frequency. [3 marks]