Practice worksheet | Probability

Comparing variation

Name: _____ Date: _____

6 questions | 9 marks

1. Using the supplied table, how many more heads did B record than A? [1 mark]

Practice data: three groups each toss a fair coin ten times

Group	Heads	Tails
A	4	6
B	7	3
C	5	5

2. Check the total trials for Group C in the table. [1 mark]

Practice data: three groups each toss a fair coin ten times

Group	Heads	Tails
A	4	6
B	7	3
C	5	5

3. Group D records nine heads in ten tosses. Is ten heads impossible in another batch? [1 mark]

4. A bag trial gives red 8 times in 20 draws; another gives red 12 times in 20 draws. Describe the difference. [2 marks]

5. Why is comparing “6 heads from 10 tosses” with “8 heads from 20 tosses” using the head counts alone unfair? [2 marks]

6. A student says a fair coin is broken because ten tosses gave 6 heads and 4 tails. Is this enough evidence? Explain. [2 marks]