

**CRACK THE
CODE**

Work out what each tile asks for. A fair coin, dice or spinner is equally likely to land on each of its outcomes. Look your answer up in the **Code Box** and write the letter it unlocks in the white box. Collect all thirteen letters in the strip, then unscramble them to find the answer.

**13
CLUES****1**

fair dice
rolled **120** times
**expected number
of sixes?**

*E***2**

fair spinner
5 equal parts, 1 to 5
spun **200** times
**expected number
of 3s?**

*S***3**

fair coin
flipped **90** times
53 heads
**how many more
than expected?**

*U***4**

fair dice
rolled **300** times
41 fours
**how many fewer
than expected?**

*U***5**

6 successes in **20** trials
then **40** in **80** more
**relative frequency
overall, as a decimal?**

*C***6**

10 hits in **40** throws
then **21** hits in **60** more
**relative frequency
overall, as a
percentage?**

*K***7**

relative frequency
of heads **0.35**
63 heads
how many flips?

*B***8**

relative frequency
of sixes **0.12**
18 sixes
how many rolls?

*B***9**

7 heads in **20** flips
then every flip is a head
**how many more flips
until the relative
frequency of heads
is 0.5?**

*I***10**

13 heads in **40** flips
then every flip is a head
**how many more flips
until the relative
frequency of heads
is 0.5?**

*D***11**

fair spinner
8 equal parts, 1 to 8
spun **400** times
**expected number
of prime numbers?**

*R***12**

fair coin
flipped **500** times
relative frequency
of heads **0.47**
**how many fewer heads
than expected?**

*R***13**

relative frequency **0.25**
after **80** trials
0.4 overall after
120 more trials
**how many successes
in the 120 more?**

*E***YOUR LETTERS**

E S U U C K B B I D R R E

UNSCRAMBLE Clue: bath time toys (6, 7)*RUBBER DUCKIES***CODE BOX****0.4** = M**0.46** = C**3** = N**6** = I**7** = O**8** = U**9** = U**14** = D**15** = R**20** = E**30%** = T**31%** = K**40** = S**48** = L**50** = A**60** = E**150** = B**180** = B**200** = R**250** = H