

Expected Values



Match the questions with the answers below.

Questions

1. I throw a normal fair die 180 times. How many times can I expect to roll a 2?
2. I spin a spinner with four equal sections numbered 10 to 13. How many 13's can I expect in 900 spins?
3. I toss a coin 3,000 times. How many times can I expect to get heads?
4. Three out of five people wear glasses. How many people would you expect to wear glasses in a town of 10,000 people?
5. I draw a card from a pack of playing cards and replace it. I do this 130 times. How many times can I expect to get a red Jack?
6. How many times must I toss a coin if I expect to get 45 tails?
7. The probability of my train being late is 0.05. I take the train to work 360 days in a year. How many times can I expect the train to be on time in an entire year?
8. I need to buy 120 tickets to expect to have one winning ticket. There are 5 winning tickets available. How many tickets are sold?

Answers

A. 5

B. 90

C. 600

D. 30

E. 1,500

F. 342

G. 6,000

H. 225