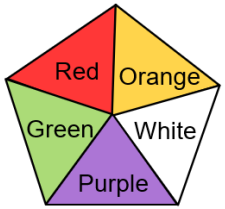
Theoretical Probability with Spinners

The fair five-sided spinner shown is spun once.



(a)

What is the probability of the spinner landing on green?

$\frac{1}{5}$

(b)

What is the probability of the spinner landing on purple or white?

$\frac{2}{5}$

(c)

What is the probability of the spinner landing on black?

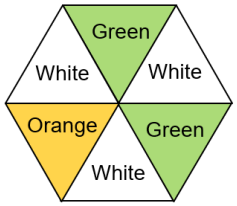
0

(d)

Sania spins the spinner 50 times. How many times would she expect it to land on orange?

10

The fair six-sided spinner shown is spun once.



(e)

What is the probability of the spinner landing on white?

$\frac{3}{6} = \frac{1}{2}$

(f)

What is the probability that the spinner does not land on orange?

$\frac{5}{6}$

(g)

Which is more likely – the spinner landing on white or the spinner landing on green?

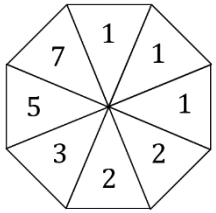
Landing on white

(h)

Lola spins the spinner 120 times. How many times would she expect it to land on white?

60

The fair eight-sided spinner shown is spun once.



(i)

What is the probability of the spinner landing on a number less than 10?

1

(j)

What is the probability of the spinner landing on an odd number?

$\frac{6}{8} = \frac{3}{4}$

(k)

What is the probability of the spinner not landing on a prime number?

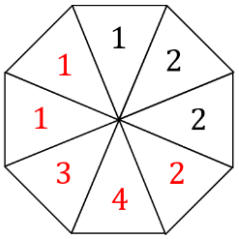
$\frac{3}{8}$

(l)

Aidan spins the spinner 80 times. How many times would he expect it to land on a 2 or 3?

30

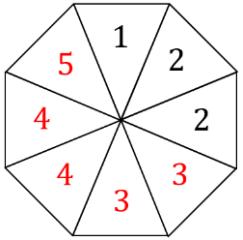
(m)



Here is a fair eight-sided spinner. Complete the spinner so that:

- The probability of landing on a 1 is the same as the probability of landing on a 2
- The probability of landing on a 4 is $\frac{1}{8}$
- The total of all the numbers on the spinner is 16.

(n)



Here is a fair eight-sided spinner. Complete the spinner so that:

- The probability of landing on an odd number is 0.5
- The probability of spinning a 3 is the same as the probability of spinning a 4
- All the numbers on the spinner are less than 8
- The total of all the numbers is 24.