

How do we calculate probabilities?



Probability of an event = $\frac{\text{number of successful outcomes}}{\text{total number of outcomes}}$

So from my packet of
the next one is
white and yellow?



what is the probability
orange, green, purple,

We need some information:

3 oranges

$\frac{3}{16}$

3 green

$\frac{3}{16}$

4 whites

$\frac{1}{4}$

1 yellow

$\frac{1}{16}$

5 purple

$\frac{5}{16}$

In my 'bag of sweets for good children' I have 20 sweets; 3 of them are my favourite éclairs.

- what is the probability that the first good child picks an éclair? $\frac{3}{20}$

- what is the probability that the first good child does not pick an éclair? $\frac{17}{20}$

- The probability of choosing a diamond card from a standard pack of cards is 0.25 what is the probability of choosing any other suit? 0.75

- The probability I loose a thumb wrestling match is 0.85, what is the probability I win? 0.15



Bonus Question - Easy

- The letters of the word HIPPOPOTAMUS are placed in a tub and a letter is taken at random. What is the probability of taking out:

- H
- M
- O
- P



Bonus Question - Hard



A bag contains 6 red balls and some white balls.

When a white ball is taken from the bag at random, the probability that it is red is $\frac{3}{5}$, how many white balls are in the bag?

$$\boxed{6} + \boxed{4} = \boxed{10}$$

$$\boxed{\frac{3}{5}} + \boxed{\frac{2}{5}} = \boxed{\frac{5}{5}} = \boxed{1}$$

