Definition of Odds

Odds of an event:

Successes : Failures

There are 12 girls and 15 boys in a class.

What are the odds of randomly selecting a girl?

$$12 : 15$$

What are the odds of randomly selecting a boy?

$$15 : 12$$

What is the probability of selecting a girl?

$$\frac{12}{27}$$

Find the odds of each outcome if a computer chooses a letter in the word "Mississippi"

The letter "i"   4 : 7

The letter "s"   4 : 7

The letter "m"   1 : 10

Not the letter "p"   9 : 2

If the probability of winning a prize is 2/7, what are the odds of winning the prize?

2 : 5

If the odds of winning a prize is 2:3,
what are the odds of losing the prize?

3 : 2