

# Dadi

In[1]:=

```
eventipossibili = Flatten[Table[i + j, {i, 1, 6}, {j, 1, 6}]]
```

Out[1]=

```
{2, 3, 4, 5, 6, 7, 3, 4, 5, 6, 7, 8, 4, 5, 6, 7, 8, 9, 5, 6, 7, 8, 9, 10, 6, 7, 8, 9, 10, 11, 7, 8, 9, 10, 11, 12}
```

In[2]:=

```
frequenze = Table[Count[eventipossibili, i], {i, 2, 12}]
```

Out[2]=

```
{1, 2, 3, 4, 5, 6, 5, 4, 3, 2, 1}
```

In[3]:=

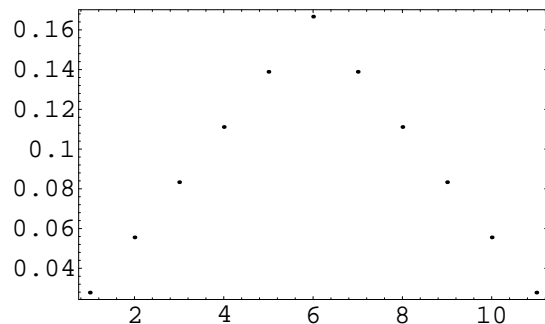
```
probabilità = frequenze/Length[eventipossibili]
```

Out[3]=

```
{ $\frac{1}{36}$ ,  $\frac{1}{18}$ ,  $\frac{1}{12}$ ,  $\frac{1}{9}$ ,  $\frac{5}{36}$ ,  $\frac{1}{6}$ ,  $\frac{5}{36}$ ,  $\frac{1}{9}$ ,  $\frac{1}{12}$ ,  $\frac{1}{18}$ ,  $\frac{1}{36}$ }
```

In[4]:=

```
ListPlot[probabilità, Axes->False, Frame->True]
```



Out[4]=

```
-Graphics-
```

In[5]:=

```
media = Apply[Plus, eventipossibili]/Length[eventipossibili]
```

Out[5]=

```
7
```

In[6]:=

```
dado := Random[Integer, {1, 6}]
```

In[7]:=

```
lanci500 = Table[dado + dado, {i, 1, 500}];
```

In[8]:=

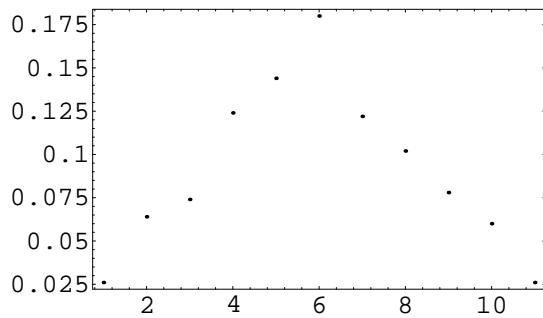
```
frequel500 = Table[Count[lanci500, i], {i, 2, 12}]/500
```

Out[8]=

```
{ $\frac{13}{500}$ ,  $\frac{8}{125}$ ,  $\frac{37}{500}$ ,  $\frac{31}{250}$ ,  $\frac{18}{125}$ ,  $\frac{9}{50}$ ,  $\frac{61}{500}$ ,  $\frac{51}{500}$ ,  $\frac{39}{500}$ ,  $\frac{3}{50}$ ,  $\frac{13}{500}$ }
```

In[9]:=

```
ListPlot[freqrel500, Axes->False, Frame->True]
```



Out[9]=

-Graphics-

In[10]:=

```
media500 = N[Apply[Plus, lanci500]/500]
```

Out[10]=

6.93

In[11]:=

```
lanci5000 = Table[dado + dado, {i, 1, 5000}];
```

In[12]:=

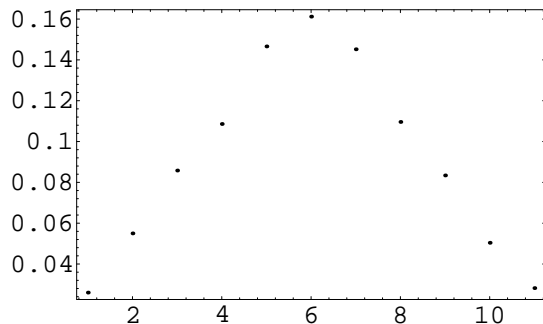
```
freqrel5000 = Table[Count[lanci5000, i], {i, 2, 12}]/5000
```

Out[12]=

{ $\frac{13}{500}$ ,  $\frac{11}{200}$ ,  $\frac{429}{5000}$ ,  $\frac{543}{5000}$ ,  $\frac{733}{5000}$ ,  $\frac{403}{2500}$ ,  $\frac{363}{2500}$ ,  $\frac{137}{1250}$ ,  $\frac{417}{5000}$ ,  $\frac{63}{1250}$ ,  $\frac{141}{5000}$ }

In[13]:=

```
ListPlot[freqrel5000, Axes->False, Frame->True]
```



Out[13]=

-Graphics-

In[14]:=

```
media5000 = N[Apply[Plus, lanci5000]/5000]
```

Out[14]=

6.986

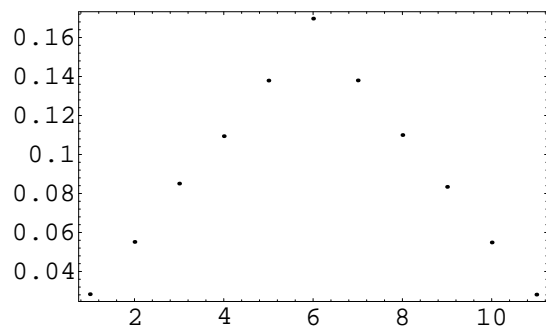
In[15]:=

```
lanci50000 = Table[dado + dado, {i, 1, 50000}];
```

```
In[16]:=
freqrel50000 = Table[Count[lanci50000,i],{i,2,12}]/50000
```

```
Out[16]=
{ $\frac{1417}{50000}$ ,  $\frac{1379}{25000}$ ,  $\frac{2127}{25000}$ ,  $\frac{547}{5000}$ ,  $\frac{431}{3125}$ ,  $\frac{1697}{10000}$ ,  $\frac{69}{500}$ ,  $\frac{5499}{50000}$ ,  $\frac{417}{5000}$ ,  $\frac{343}{6250}$ ,  $\frac{1407}{50000}$ }
```

```
In[17]:=
ListPlot[freqrel50000, Axes->False, Frame->True]
```



```
Out[17]=
-Graphics-
```

```
In[18]:=
media50000 = N[Apply[Plus,lanci50000]/50000]
```

```
Out[18]=
0.6986
```